

**Rebecca Silcock, Ph.D.**  
**Senior Scientist**

**Professional Profile**

Dr. Silcock is a metabolism chemist with 13 years experience gained working for Syngenta (formerly Zeneca Agrochemicals), most recently as a Regulatory Metabolism Senior Study Director, and previously as a Dietary Safety Team Leader.

Dr. Silcock has broad ranging experience within the agrochemicals industry and has a proven track record of providing metabolism and dietary safety input to multidisciplinary project teams. She is an experienced study director, with particular expertise in the fields of crop, livestock, and mammalian metabolism and dermal absorption. Dr. Silcock has significant experience evaluating metabolism and residue data, preparing regulatory metabolism and dermal absorption study summaries for inclusion in EU submissions, and preparing toxicokinetic assessments for inclusion in Notification of New Substance (NONS) submissions (now superseded by REACH). In her dietary safety role, Dr. Silcock took responsibility for the dietary safety support of two key agrochemicals. This included responding to technical queries relating to product use, misuse, and proposed new uses; performing consumer risk assessments; conducting critical data reviews; identifying data gaps; and providing program overview of studies placed at contract laboratories.

**Academic Credentials and Professional Honors**

Ph.D., Biosynthetic Chemistry, University of Cambridge, 1995  
B.A. (honours), Natural Sciences, University of Cambridge, 1991

## **Publications**

Harris RC, Cutter AL, Weissman KJ, Hanfeld U, Timoney MC, Staunton J. Enantiospecific synthesis of analogues of the diketide intermediate of the erythromycin polyketide synthase (PKS). *Journal of Chemical Research (S)* 1998; 283.

Harris RC, Cutter AL, Weissman KJ, Hanfeld U, Timoney MC, Staunton J. Enantiospecific synthesis of analogues of the diketide intermediate of the erythromycin polyketide synthase (PKS). *Journal of Chemical Research (M)* 1998; 1230–1247.

Holzbaur IE, Harris RC, Bycroft M, Cortes J, Bisang C, Staunton J, Rudd BAM, Leadlay PF. Molecular basis of Celmer's rules: The role of two ketoreductase domains in the control of chirality by the erythromycin modular polyketide synthase. *Chemistry and Biology* 1999; 6:189–195.

## **Presentations**

Harris RC. Biosynthesis of macrolide antibiotics. 15<sup>th</sup> Mona Symposium, University of West Indies, Jamaica, 1994.

## **Prior Experience**

Senior Study Director, Regulatory Metabolism, Syngenta CTL, UK, 2001–2008  
Dietary Exposure Team Leader, Zeneca Agrochemicals, Jealott's Hill, UK, 1998–2001  
Lead Method Development Chemist, Zeneca Agrochemicals, Jealott's Hill, UK, 1996–1998  
Post Doctoral Research Fellow, Zeneca Agrochemicals, Jealott's Hill, UK, 1995–1996

## **Project Experience**

Study directed crop metabolism, livestock metabolism, ADME, pharmacokinetic, and dermal absorption studies. Study reviewed crop residue trial and method validation studies placed at contract laboratories.

Wrote toxicokinetic assessments for inclusion in NONS submissions.

Wrote numerous metabolism and dermal absorption study summaries for inclusion in EU submissions. Peer reviewed crop, livestock, and mammalian metabolism, residue, and analytical methods sections of EU dossiers.

Modelled consumer exposure to pesticide residues using deterministic techniques.