

Exponent®
Engineering & Scientific Consulting


## Chris Campbell, Ph.D.

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## Professional Profile

Dr Chris Campbell has a broad experience of working in the chemical industry. In his current role Dr Campbell works with standard FOCUS, and EU member state specific, models, employing higher tier refinements, to carry out environmental exposure assessments for active substance approval under EU commission regulation 1107/2009. Dr Campbell provides assistance drafting environmental fate sections of the active substance dossier for the EU, and draft Registration Reports (dRR) for product applications in specific EU zones and member states. Dr Campbell has past laboratory experience conducting OECD based studies under GLP guidelines. He has hands on experience of plant metabolism (OECD 501 and 502) and environmental fate (OECD 106, 307 and 308) studies. Drawing on this expertise Dr Campbell assists with study monitoring of studies used to support the environmental fate and behavior data package required under Comm Reg (EU) No. 1107/2009.

In addition, he has investigated higher tier soil experiments and conducted research into the effects of water treatment processes on residues present in water abstracted for human consumption.

In other previous roles Dr Campbell has worked predominantly in the field of synthetic organic chemistry, specifically in the development of novel solid supports for chromatography and enzyme immobilization. He has experience of project management and lead the transfer and eventual closure of an international production site. This background supports Dr Campbell in his current role and enables him to provide advice on synthetic and analytical aspects of regulatory studies.

## Academic Credentials & Professional Honors

Ph.D., Chemistry, University of Edinburgh, UK, 2013

M.Chem., Chemistry, University of Oxford, UK, 2009

Stapeldon scholarship, awarded by Exeter College, Oxford for achieving a distinction in first year exams.

Fitzgerald prize, awarded by Exeter College, Oxford for achieving a first-class degree.

## Prior Experience

Process Chemist, Biotage, 2018-2022

Research Scientist, Purolite, 2016-2018

Metabolism Chemist, Syngenta, 2014-2015

Assistant Scientist, Charles River, 2013-2014

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## Publications

Beves JE, Blight BA, Campbell CJ, Leigh DA, McBurney RT. Strategies and Tactics for the Metal-Directed Synthesis of Rotaxanes, Knots, Catenanes and Higher Order Links. Angew. Chem. Int. Ed. 2011; 50: 9260 – 9327.

Ayme JF, Beves JE, Campbell CJ, Leigh DA. Template Synthesis of Molecular Knots Chem. Soc. Rev. 2013; 42: 1700 – 1712.

Beves JE, Campbell CJ, Leigh DA, Pritchard RG. Tetrameric Cyclic Double Helicates as a Scaffold for a Molecular Solomon Link. Angew. Chem. Int. Ed. 2013; 52: 6464 – 6467.

Ayme JF, Beves JE, Campbell CJ, Leigh DA. The Self-sorting Behavior of Circular Helicates and Molecular Knots and Links. Angew. Chem. Int. Ed. 2014; 53: 7823 – 7827.

Campbell CJ, Leigh DA, Vitorica-Yrezabal IJ, Woltering SL. A Simple and Highly Effective Ligand System for the Copper(I)-Mediated Assembly of Rotaxanes. Angew. Chem. Int. Ed. 2014; 53: 13771 – 13774.

Ayme JF, Beves JE, Campbell CJ, Gil-Ramírez G, Leigh DA, Stephens AJ. Strong and Selective Anion Binding Within the Central Cavity of Molecular Knots and Links. J. Am. Chem. Soc. 2015; 137: 9812−9815.

Ayme JF, Beves JE, Campbell CJ, Leigh DA. Probing the dynamics of imine-based pentafoil knot and pentameric circular helicate assembly. J. Am. Chem. Soc. 2019; 141: 3605-3612.

## Project Experience

FOCUS groundwater and surface water modelling using standard scenarios and higher tier refinements.

Assisting with the production of active substance and product dossiers including sections MCA7 and MCP9.

Assisting with the compilation of product dRRs including member state specific addenda, requiring the use of member state specific models and exposure assessments.

Study monitoring of studies used to support the environmental fate and behavior data package required under Comm Reg (EU) No. 1107/2009.