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Bibra toxicology advice & consulting Ltd

A résumé of major projects involving bibra toxicologists

One of the unique strengths of the **bibra** team of toxicologists is the extraordinary length of time that they have worked together, resulting in an operational efficiency that ensures high project quality and cost-effectiveness. Each team member brings specific individual skills, generating community strength across a comprehensive range of toxicological (and epidemiological) end-points. The same team ethic drives the company's unmatchable efficiency in database searching and data identification.

To reflect the power of this team expertise and performance and to assist clarity (by avoiding repetition in the specific and multiple listing of projects in individual CVs), we felt it would be easier on the reader if we provide brief summaries of the major projects that **bibra** (in all its guises – see history on page 16), has worked on in the last 20 years, along with the names of those who worked on each project.

Please contact us if you would like to see a detailed CV for any individual member of our staff.

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Corporate CV

Project	Project Team
Bibra toxicology advice & consulting Ltd Bibra provides a comprehensive range of advisory and consultancy services on all aspects of chemical toxicological hazard and human health risk; bibra can also advise on associated legislation. TRN readers receive a monthly update on key developments in toxicology. The following examples illustrate the nature of some of the consultancy projects that we have undertaken.	
REACH ***(Registration, Evaluation, Authorisation and Restriction of Chemicals)***	
Assistance on REACH registration tasks for hundreds of substances including: • Searching both internal (e.g. TRACE) and external information sources for data on toxicity, ecotoxicity, physicochemical properties and environmental fate • ADME assessment • Categorization and analysis of read-across possibilities (and justification for their use) • (Q)SAR analyses • Data gap analysis, in readiness for generation of Integrated Testing Strategies (ITS) and data waivers • Evaluating and summarizing papers/study reports, IUCLID 5 filling, and preparation of robust study and endpoint summaries (Dossier preparation) • DNELs, PNECs and PBT/vPvB assessment • Classification and labelling (to CLP and DSD), • Development of Chemical Safety Report (CSR)	Philip Copestake Margaret Davies Tanya Diver Anne Edwards James Hopkins Tracy Laughland Beth O'Connell Judy Ricketts Emma Russell Chris Waine Peter Watts Richard Young
IUCLID 5 web-hosting	Richard Young
In regard to hazard classification needs under REACH, GHS and the new EU Classification and Labelling Regulation (1272/2008), independent classification of many hundreds of substances used in consumer products. Also classification of mixtures	Tanya Diver Anne Edwards James Hopkins Tracy Laughland Beth O'Connell Emma Russell Peter Watts Richard Young
Supply of TRACE toxicity database bibliographic printouts for REACH pre-registered substances to a large manufacturing company, as part of the critical, early data-gathering step in dossier preparation. TRACE appears in ECHA guidance on Information gathering as a useful source of toxicity information	Judy Ricketts Peter Watts Richard Young

Project	Project Team
Expert searches of recent literature for new data on a substance for a SIEF, to update existing knowledge of the literature. Also, summary and robust summary preparation of new studies in IUCLID 5 format	Philip Copestake Richard Young
Organising (Q)SAR analyses (e.g. DEREK, TOPKAT) to predict the toxicity of untested substances. Receiving the model outputs, searching more recent literature, producing accompanying reports and providing "sanity checks"	Philip Copestake James Hopkins Chris Waine Peter Watts Richard Young
Carrying out Q(SAR) analyses (alerts and profiles) on numerous substances, using the OECD Toolbox	Beth O'Connell Chris Waine Peter Watts Richard Young
Use of various tools (OECD Toolbox, ChemIDplus etc.) to identify suitable read-across substances (structural analogues)	Philip Copestake Beth O'Connell Chris Waine Peter Watts Richard Young
Identification of CMRs, PBTs and vPvBs amongst a downstream user's large portfolio of supplied substances	Philip Copestake Peter Watts
Assistance with identification of information for the pre-registration of several hundred ingredients of a consumer product type	Philip Copestake Richard Young
Advice on the Chemical Safety Assessment of a complex mixture	Tanya Diver Peter Watts
Food and Consumer Products sector	
Hazard and risk assessments relating to contaminants in food and drink. Examples of contamination scenarios include: (a) migration of packaging material components (b) residues of processing aids € cross-contamination due to use of common equipment (d) contamination during manufacture due to equipment failu€(e) pesticide residues (f) decomposition products	Philip Copestake Margaret Davies Tanya Diver James Hopkins Peter Watts Richard Young
Assessments of large number of ingredients (including CMRs), used in household consumer products. Includes summaries of the critical toxicity data (concentrating on the inhalation and dermal routes), and also including sections on existing Occupational Exposure Limits (OELs), exposure and use, classification and labelling, and existing Health Criteria Values (HCVs).	Beth O'Connell Tanya Diver Chris Waine Peter Watts Richard Young
Urgent health risk assessment following the identification of a chemical in infant food at concentrations delivering estimated doses close to or above the ADI	Peter Watts
Safety-in-use opinions (risk assessments) on multi-component formulations, including food-contact inks, adhesives, coldseals, food-	Philip Copestake Tanya Diver

Project	Project Team
contact matrices and fruit labels	Anne Edwards James Hopkins Tracy Laughland Judy Ricketts Emma Russell Peter Watts Richard Young
Preparation of succinct overviews on the occurrence, intake and toxicology of food and drink contaminants (synthetic and natural)	Philip Copestake Margaret Davies Tanya Diver Anne Edwards James Hopkins Tracy Laughland Judy Ricketts Peter Watts Richard Young
Urgent hazard and risk assessment on a surface contaminant of a consumer product likely to come into contact with human skin	James Hopkins Peter Watts
Hazard and risk assessments of water contaminants	James Hopkins
Risk assessment of a sanitizing process for use in food factories	Tanya Diver James Hopkins
Risk assessment of chemical contaminants in cooking oil from a ceramic oil filter	Beth O'Connell Peter Watts
Risk assessment of a contaminant in soft books for babies	Tanya Diver James Hopkins
Safety evaluation of a flavouring product for use in beer production	Tanya Diver James Hopkins Richard Young
Risk assessment of four chemical contaminants in an alcoholic spirit	Tanya Diver James Hopkins Chris Waine
Secondment of a senior toxicologist to assist a member company during the introduction of an SAP Product Lifecycle Management (PLM) system and, together with two other toxicologists, in periods of the client's staff shortages	Philip Copestake Emma Russell Richard Young

Project	Project Team
Critical summaries of the toxicological status of food additives	Philip Copestake Margaret Davies Tanya Diver Anne Edwards James Hopkins Tracy Laughland Judy Ricketts Emma Russell Peter Watts Richard Young
Hazard assessments of a wide range of plant-derived extracts with potential use as nutraceuticals	Philip Copestake Margaret Davies Tanya Diver Anne Edwards James Hopkins Tracy Laughland Judy Ricketts Emma Russell Peter Watts Richard Young
Hazard and risk assessments related to probiotics intended for food use	Philip Copestake Margaret Davies Emma Russell
Summaries of toxicity data, with an emphasis on carcinogenicity, mutagenicity and reproductive toxicity, on several hundred flavourings and fragrances used in various consumer products	Christina Andersen Philip Copestake Margaret Davies Tanya Diver Anne Edwards James Hopkins Tracy Laughland Beth O'Connell Judy Ricketts Emma Russell Chris Waine Peter Watts Richard Young Helen Hunt Emma Ainsworth Joanna Day
Preparation and/or updating of toxicity reviews, in approved formats, on dozens of chemicals in preparation for disclosure to different national regulatory agencies	Margaret Davies Tanya Diver Anne Edwards Tracy Laughland Beth O'Connell Emma Russell Peter Watts Richard Young Kelly Jackson
Evaluation of flavourings used in electronic cigarettes, focusing on the	Beth O'Connell

Project	Project Team
inhalation route of exposure. Use of read-across and (Q)SAR in the absence of substance-specific data. Also identification of existing HCVs and, in the absence of recent, reliable, inhalation values, the proposal of suitable benchmarks for future inhalation risk assessments for consumers.	Peter Watts Richard Young
Preparation of several hazard reports on a major consumer substance. Using the published literature to generate reports on general systemic toxicity, cardiovascular, reproductive and developmental effects, and co-carcinogenicity studies	Peter Watts Tanya Diver Tracy Laughland
Critical review of the literature on the role and value of currently used genotoxicity screening tests to predict mammalian carcinogenicity	James Hopkins Tanya Diver Emma Russell
Reviews of the literature on the skin absorption of heavy metals, such as antimony, arsenic, cadmium, lead and mercury	James Hopkins Philip Copestake Emma Russell Anne Edwards
Classification of over 500 ingredients of consumer products by the Cramer, Ford and Hall (1978) decision tree and by Toxtree	Peter Watts
Application and evaluation of structure activity methodology	Beth O'Connell Peter Watts James Hopkins Tanya Diver Emma Russell
Assessment of molecules for the presence of any structural alerts which have been linked with DNA reactivity or genotoxic carcinogenicity by Tennant and Ashby (1991), and using the decision tree approach of Cramer, Ford and Hall (1978) and Toxtree to identify any functional groups that might be indicative of significant toxicity	Beth O'Connell Philip Copestake Anne Edwards Peter Watts Tanya Diver James Hopkins
Critical evaluation of the neurobehavioural toxicology of a food additive class	Tanya Diver Margaret Davies James Hopkins
Comparison of two salts of a metal, to assist in reaching a substitution decision	Anne Edwards Peter Watts
Critical evaluation of the literature relating to ethanol absorption from various types of alcoholic beverage	Peter Watts
Data mining of the published literature for toxicity data suitable for benchmark dose modelling, to allow margins of exposure to be estimated	Anne Edwards Beth O'Connell Richard Young
Risk assessments of various cigarette filters	Philip Copestake Tanya Diver James Hopkins Peter Watts
Tabulation of ADIs for several hundred flavourings	Margaret Davies

Project	Project Team
	Beth O'Connell Richard Young
Review on the use of the mouse local lymph node assay (LLNA) for identifying skin sensitizers, and the human health implications of a positive result	Tanya Diver James Hopkins
Review on the value of the direct peptide reactivity assay for identifying skin and/or respiratory sensitisers	Philip Copestake Beth O'Connell
Risk assessments of various ingredients in tooth-whitening products	James Hopkins Beth O'Connell Peter Watts
Risk assessment of a precipitate in a breath spray	Beth O'Connell Peter Watts
Compiling a cosmetic product safety report (CPSR) assessing the safety of a skin cream	Beth O'Connell Peter Watts Richard Young
Overview of the prevalence of sensory hyperreactivity, chemical sensitivity and food allergy	Tanya Diver James Hopkins
Health risk assessments of complex flavouring mixtures for addition to e-cigarette formulations	Peter Watts Richard Young
Health risk assessments based on extractables and headspace studies of an array of components of e-cigarette devices	Pete Watts
Advice on extractables that are likely health-critical for targeting in subsequent leachables studies on e-cigarette devices and components	Pete Watts
Health risk assessments based on leachables studies on e-cigarette devices	Pete Watts
Provision of hazard assessments for several flavourings intended for use in electronic cigarettes (e-cigs), including ADME insights to allow extrapolation from the oral laboratory animal data to the intended inhalation consumer exposure.	Beth O'Connell Peter Watts Richard Young
Health risk assessment for bystanders potentially exposed to chemicals released from e-cigarettes	Peter Watts
Assessment of the potential health impact of increasing the weight of e-cigarette components made of a specific polymeric material, absed on extractable study results	Peter Watts
Chemicals sector	
MOAs An elucidation of the Mode of Action of carcinogenic and toxic constituents of complex mixtures using the precepts of the Human Relevance Framework of the International Programme on Chemical Safety.	James Hopkins Peter Watts
REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) Assistance on REACH registration tasks for a large number of chemical companies (please see page 2 of this CV for further details)	
Completion of study summaries, filling of data gaps and preparation of	Philip Copestake

Project	Project Team
data waivers for authorisations under the Biocidal Products Directive (BPD) and Biocidal Products Regulation (BPR)	Tanya Diver Anne Edwards Richard Young Peter Watts
Assistance with pre-manufacture notice (PMN) submission, as a Support Registrant, for compliance with the US Toxic Substances Control Act (TSCA)	Beth O'Connell Richard Young
Hazard and risk assessments on chemicals encountered in the workplace	Philip Copestake Tanya Diver Anne Edwards James Hopkins Tracy Laughland Judy Ricketts Emma Russell Peter Watts Richard Young
Hazard and risk assessment of low-dose exposures experienced by the general population as a result of industrial emissions	James Hopkins Peter Watts
Derivation of proposed Workplace Exposure Limits for chemicals without existing quantitative guidance, and comments on existing values	James Hopkins Peter Watts
Advice on complex toxicological issues related to inter-supplier differences in CHIP classification and labelling. Recommendations on appropriate classification to ensure compliance with CHIP	Philip Copestake James Hopkins Emma Russell Peter Watts
Providing advice to a Hong Kong planning tribunal on toxic materials used in tunnel construction	James Hopkins
Chemical hazard assessments supplied for due diligence purposes	Emma Russell James Hopkins Peter Watts
Preparation of "position papers" on important chemicals of high concern that have found their way into various environmental media e.g. POP chemicals	Margaret Davies Peter Watts Richard Young
Providing regular literature monitoring searches on chemicals or chemical groups e.g. plasticizers, oxygenated solvents, identifying the key toxicological data, and preparing evaluative summaries	Philip Copestake Tanya Diver Tracy Laughland
Preparation of a FOCS report for a major European sector	Peter Watts
Recommending Occupational Exposure Levels (OELs, OESs) for pharmaceutical actives	Philip Copestake Peter Watts
Risk assessments of general population exposure to tracers used in domestic and industrial fuels	James Hopkins Peter Watts
Pharmaceuticals and Healthcare sectors	

Project	Project Team
A large number of hazard reviews and toxicological risk assessments on low-level pharmaceutical impurities (including genotoxic impurities) and degradation products in pharma products (including parenteral nutrition products)	Philip Copestake James Hopkins Chris Waine Peter Watts Richard Young
Hazard reviews and risk assessments on excipients and contaminants in pharmaceutical products (including parenteral nutrition products)	Philip Copestake James Hopkins Peter Watts Richard Young
Health risk assessment of several impurities in a raw material used in the production of a pharmaceutical vaccine	Peter Watts
For due diligence purposes, hazard assessment of a pharmaceutical active ingredient	James Hopkins
Toxicity reviews of the non-clinical toxicology of pharmaceutical actives	James Hopkins Peter Watts Philip Copestake Emma Russell Richard Young
A number of reviews of the toxicological implications arising from a change in the counter-ion in various ionic pharmaceutical actives	James Hopkins Peter Watts Richard Young
Comprehensive literature searches for toxicity data on impurities of well-known pharmaceutical actives	Chris Waine James Hopkins Beth O'Connell Peter Watts Richard Young Tanya Diver
Numerous hazard and risk assessments relating to extractables and leachables from processing equipment and packaging materials into simulating solvents and pharmaceutical products.	Chris Waine Peter Watts James Hopkins Tanya Diver
Provision of advice on which key extractables should be analysed in subsequent leachable studies	Chris Waine Peter Watts James Hopkins
Setting of Analytical Evaluation Thresholds (AET), Safety Concern Thresholds (SCT), and Qualification Thresholds (QT) for application to leachables, following extractables studies	Chris Waine Peter Watts
Safety-in-use opinions on formulations used in medical products in close and regular contact with skin, including pharmaceuticals and wound dressings	Philip Copestake Tanya Diver James Hopkins Judy Ricketts Peter Watts Richard Young
Interpretation and assessment of biocompatibility studies on medical	Beth O'Connell

Project	Project Team
devices carried out to meet ISO 10993-1 requirements	Peter Watts
Drafting of documents justifying extension of contact time for medical devices in accordance with the requirements of ISO 10993-1	Chris Waine Peter Watts Richard Young
Risk assessments relating to changes in medical films as a result of suppliers altering their manufacturing processes.	Peter Watts
Bridging reports for medical devices. Read-across of biocompatibility studies between similar dressings	Peter Watts Beth O'Connell
Generation of reports providing data waiving arguments for biocompatibility studies on medical devices, using the published literature	Beth O'Connell Peter Watts
Risk assessment of a component of a resin for use in medical procedures	Tanya Diver James Hopkins
Risk assessment of a sanitizing process for use in hospital wards	Tanya Diver James Hopkins

Agrochemical sector	
Preparation of dossiers for submission under 91/414/EEC, relating to the active substances of plant protection products. Assessment and review of complex, high-volume toxicity datasets	Peter Watts Tanya Diver
Preparation of dossiers for submission under 98/8/EC and (EU) 528/2012, relating to biocidal products. Assessment and review of complex, toxicity datasets and the preparation of data waivers	Philip Copestake Tanya Diver Peter Watts
Literature searches and subsequent refining and study summary preparation to assist in updating dossiers on PPP actives (under 1107/2009)	Emma Russell Philip Copestake Peter Watts
A survey of Health Criteria Values underpinning the global regulatory limits on several hundred pesticides/crop protection agents	Tanya Diver Anne Edwards Emma Russell Peter Watts Richard Young Judy Ricketts Beth O'Connell
Consultancy on the relevance of a positive genotoxicity study on an active substance. Assessment of weight of evidence and the influence of administration route	Peter Watts
Co-ordination of the EU-funded Concerted Action Projects instigated to construct EUROPOEM (European Predictive Operator Exposure Model) generic databases of operator, bystander and re-entry worker exposures to plant protection products and to develop predictive models	Peter Watts

Project	Project Team
Government Agencies and International Organisations	

UK Environment Agency	
Contaminated land Development of toxicity collations using the principles outlined in SR2 (formerly CLR9) as part of the Contaminated Land Exposure Assessment (CLEA). As a consequence, bibra has evaluated the mammalian toxicology of a large number of substances culminating in reports that recommend oral and inhalation health criteria values. Reports on the following chemicals have been published: benzene; toluene; ethylbenzene; xylenes; mercury; selenium; arsenic; nickel; cadmium; phenol; dioxins, furans and dioxin-like PCBs. These can be found on the EA's website (http://www.environment-agency.gov.uk/research/planning/64002.aspx). Draft reports have also been prepared on: chromium; cyanide (inorganic); lead (inorganic); lead (organic); polycyclic aromatic hydrocarbons.	James Hopkins Peter Watts
Contaminated air Based on an assessment and distillation of the conclusions of authoritative reviews produced by national and international organizations, together with an evaluation of the impact of more recent primary literature, draft reports have been prepared on acrylonitrile, antimony, carbon tetrachloride, chloromethane, dimethyl formamide, hydrogen cyanide, phenol, selenium, tetrachloroethane, trichloroethylene and vinyl chloride. The objective is the derivation of tolerable concentrations in air (TCA). The finalized reports will ultimately feed into the derivation and adoption of an environmental assessment level (EAL) for use within the Environmental Permitting Regulations.	James Hopkins Peter Watts Beth O'Connell
Benchmark dose analysis Identification of key cancer data on selected soil contaminants in preparation for benchmark dose analyses Estimation of $BMDL_{10}$ values of a laboratory animal carcinogen	James Hopkins Richard Young

Health Canada	
Categorization under the Canadian Environmental Protection Act (CEPA) 1999 Providing advice and critical comment on "Categorization of Organic Substances on the Domestic Substances List (DSL) for Inherent Toxicity to Humans: Proposed Initial Approach and Criteria" based on a processing of 100 compounds	Philip Copestake Tanya Diver James Hopkins Peter Watts
Carcinogenicity and genotoxicity and CEPA: possible next steps To consider how a categorization scheme or a prioritization process might be developed to reduce the number of compounds on the DSL that needed subsequent additional detailed phases of assessment based on an initial ranking as either carcinogens or genotoxins	James Hopkins
Polymers and CEPA: possible next steps	James Hopkins

Project	Project Team
A consideration of how around 200 polymers might be prioritized for toxicity categorization under CEPA 1999	Peter Watts
The exposure response tool and some other CEPA issues Consideration of the most cost-effective means to introduce a measure of dose-response for substances already identified as a problem by the Categorization process	James Hopkins Peter Watts
UVCBs and CEPA 1999 A consideration of the compositional issues related to a large list of UVCBs (Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials) and how these might be handled under CEPA 1999	Tanya Diver Philip Copestake Anne Edwards James Hopkins Emma Russell Peter Watts
Thinking piece on petroleum UVCBs Consideration of how the objectives outlined in CEPA 1999 might be achieved with respect to the petroleum products on the DSL	James Hopkins
Toxicity Profiles Preparation of around 75 Toxicity Profiles for a subset of compounds (High or Intermediate Hazard, Greatest Potential for Human Exposure) on the "Maximal List" of the DSL	James Hopkins Peter Watts Tanya Diver Anne Edwards Philip Copestake Tracy Laughland Emma Russell
Comprehensive Hazard Reviews Preparation of sections 8 ("Kinetics and Metabolism"), 9 ("Mammalian Toxicology") and 10 ("Effects on Humans") of Supporting Documentation for 19 Priority Substances under the CEPA 1999	James Hopkins Peter Watts Philip Copestake Tanya Diver Tracy Laughland
Section 75 succinct summaries Identification and summary of the main toxicological concerns that gave rise to the regulatory restrictions on 20 compounds banned or substantially restricted in OECD countries or elsewhere around the world	Tanya Diver James Hopkins
Screening assessments Peer review of ten draft Screening Health Assessment Reports prepared by Health Canada	Philip Copestake Tanya Diver
Robust toxicity summaries Preparation of robust summaries on perfluorooctylsulfonyl, perfluorobutylsulfonyl and perfluoroalkyl compounds	Tanya Diver Emma Russell
State of Science (SOS) reports Preparation of an SOS report from an existing generic SOS, together with updating from the published literature	Anne Edwards Peter Watts

Project	Project Team
Peer review of the draft of another SOS report	
Fact sheets Identification, summary and critical evaluation of the information on human, laboratory animal and *in vitro* studies of the toxic effects of 21 substances	Philip Copestake Tanya Diver Peter Watts
"Insufficient to conclude" Peer review of a "Follow-up report on a PSL1 substance for which data were insufficient to conclude whether the substance was "Toxic" to human health: chlorinated paraffins"	Peter Watts
Peer review of hazard reports Peer review of 33 hazard reports prepared by Health Canada	Tanya Diver James Hopkins Peter Watts
Hexachloroethane Information and advice on the genotoxicity profile of hexachloroethane	Anne Edwards Peter Watts
(Q)SARs Participation in a workshop on (quantitative) structure activity relationships (Q)SAR models and subsequent preliminary analyses of a range of analogue identification tools	Peter Watts
Peer consultation on genotoxicity A contribution within a peer consultation on genotoxicity for categorization of "Inherent Toxicity" to humans	Peter Watts
No-effect levels Analysis of the variations between effect levels in comparable sub-chronic and chronic studies to determine what uncertainty factor should be applied in the development of tolerable intakes for "less than chronic" studies	Tanya Diver

Organization for Economic Co-operation and Development (OECD)	
The peer-review (under contract) of a large number of draft SIDS Initial Assessment Reports (SIARs) and draft SIDS Initial Assessment Profiles (SIAPs) prepared for discussion at the following SIDS Initial Assessment Meetings (SIAMs) 17, 18, 20-24, 26-29 and 31, and Cooperative Chemicals Assessment Meetings (CoCAMs) 1 and 2	James Hopkins Philip Copestake Peter Watts Tanya Diver Anne Edwards Emma Russell

CEFIC (Confédération Européenne des Fédérations de l'Industrie Chimique)	
Assistance in a RIP3.1 scoping project aimed at producing guidance for data requirements under REACH, including consideration of data sources, data quality, alternatives to study data and study waivers	Peter Watts

Project	Project Team
International Programme on Chemical Safety – World Health Organization	
Preparation of nine CICADs (Concise International Chemical Assessment Documents) and attendance (as Temporary Advisors) at four FRB meetings	Philip Copestake Peter Watts
Peer-review of ten draft CICADs	Philip Copestake James Hopkins Peter Watts
The production of IPCS International Chemical Safety Cards (ICSCs), and participation in the Peer-Review Committee	Philip Copestake

IRSST (Institut de recherche Robert-Sauvé en santé et en sécurité du travail)	
A review of selected literature (1995-2009) on the carcinogenicity of trichloroethylene (TCE). Published 2010	Peter Watts

UK Ministry of Agriculture Fisheries and Food	
Providing the UK MAFF with independent reviews, summaries of toxicology, and risk assessments of formulations submitted for approval as disinfectants under the 1981 Animal Health Act	Peter Watts

UK Ministry of Agriculture Fisheries and Food / Department of Health	
Preparation of MAFF/DoH literature reviews covering subjects including the toxicology of polychlorinated biphenyls (PCBs), the use of toxic equivalency factors for PCBs, and the pharmacokinetics of heavy metals in infants	Peter Watts

European Union - EUROPOEM projects	
Co-ordination of the EU-funded Concerted Action Projects instigated to construct EUROPOEM (European Predictive Operator Exposure Model) generic databases of operator, bystander and re-entry worker exposures to plant protection products and to develop predictive models	Peter Watts

Bibra – General	
Preparation of close to 500 BIBRA Toxicity Profiles, concise hazard assessments, on important chemicals. Many of these were sponsored by member companies	Philip Copestake Margaret Davies Tanya Diver Anne Edwards James Hopkins Tracy Laughland Judy Ricketts Emma Russell Peter Watts Richard Young

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…its evolution from BIBRA Information Services Ltd and Toxicology Advice & Consulting Ltd

The British Industrial Biological Research Association (BIBRA) was founded in the early 1960s, jointly funded by industry and the UK government. Its objectives were to undertake basic and applied research in chemical toxicology, and to provide its member companies with information and advice on all aspects of chemical toxicology and the associated legislation.

Despite name changes, to BIBRA Toxicology International in 1989, and to BIBRA International in 1994, the Research Association constitution was maintained through to August 1999. At this point, BIBRA was bought by TNO, a Dutch contract research organization, and became a limited company, TNO BIBRA International Ltd. In November 2002, TNO sold the company to a private investor who traded up to the end of 2004 as BIBRA International Ltd.

The information and advisory business of BIBRA International Ltd was sold in January 2005 and it then traded as BIBRA Information Services Ltd (BIS). Its senior staff and owners are the toxicologists who provided the member company services of BIBRA (and BIBRA Toxicology International, BIBRA International, and TNO BIBRA International Ltd) through to the end of 2002. These toxicologists formed a consultancy company, Toxicology Advice & Consulting Ltd (TAC), in January 2003 and, since January 2005, TAC and BIS have operated jointly.

In 2007, BIS and TAC were amalgamated. The company is now known as bibra toxicology advice & consulting

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