Programme of Modules

Module 1 (six 2-hour webinars with three speakers and a Q&A session):

An introduction to the principles of regulatory toxicology: present and future

This introductory module takes a critical approach to the conduct and interpretation of toxicity studies in light of risk assessment, emphasising the need to employ a flexible approach in order to maximise understanding of toxicity and relevance to human risk assessment across different industry sectors and regulatory principles.

The module will be delivered as six 2-hour webinars between June and December 2024, with a final in-person workshop in January 2025.

The registration cost for Module 1 in 2024 is £200 per delegate. This will not include travel or accommodation (if required) for the in-person workshop.

Session 1

INTRODUCTION TO REGULATORY TOXICOLOGY

Date: Tuesday 25th June 2024, 10:00-12:00

Moderator Dr David Andrew (RSA; BTS Project Manager**)**

Welcome & introduction:
Moderator 5 minutes

Topic 1: Overview of regulatory toxicology, its aims and purpose.
Charlotte Thorpe, HSE 25 minutes

Topic 2: Overview of hazard and risk assessment, including classification and labelling.
Dr Susy Brescia, HSE 25 minutes

Topic 3: Summary of the current situation and potential future changes in regard to animal testing and NAMs.
Dr Camilla Alexander-White, RSC 25 minutes

Question and Answer Session (Moderator & all speakers) 30 minutes

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Session 2

ACUTE TOXICITY, IRRITATION & SENSITISATION

Date: Wednesday 17th July 2024: 10:00-12:00

Moderator: Sophie Lloyd, Dstl

Welcome & introduction:
Moderator 5 minutes

Topic 1: Acute oral and dermal toxicity studies.
Hayley Parker, Labcorp 25 minutes

Topic 2: Acute inhalation toxicity.
Dr Jo Kilgour, Mereside Toxicology Consulting Ltd 25 minutes

Topic 3: Irritation & sensitisation studies.
Claire Elliott, Penman Consulting 25 minutes

Question and Answer Session (Moderator & all speakers) 30 minutes

Session 3

ADME / TOXICOKINETICS

Date: Thursday 5th September 2024, 10:00-12:00

Moderator: Dr Emma Barnes (Syngenta)

Welcome & introduction: Moderator	5 minutes
Topic 1: Overview of ADME / toxicokinetics. Alex Gledhill, ERM	25 minutes
Topic 2: Overview of *in vitro* methods of metabolism & absorption. Katherine Knowles, Syngenta	25 minutes
Topic 3: Introduction to PBPK modelling. Dr Ciaran Fisher, GSK	25 minutes
Question and Answer Session (Moderator & all speakers)	30 minutes

Session 4

GENOTOXICITY

Date: Wednesday 9th October 2024 10:00-12:00

Moderator: Professor Shareen Doak (Swansea University)

Welcome & introduction: Moderator	5 minutes
Topic 1: Genotoxicity studies: introduction, general principles. Dr Katherine Chapman (Swansea University)	25 minutes
Topic 2: The use of (Q)SAR as a predictor of genotoxicity. Dr Alex Cayley (Lhasa Limited)	25 minutes
Topic 3: Mechanisms of genotoxicity, implications for risk assessment. Dr Paul Fowler (FStox)	25 minutes
Question and Answer Session (Moderator & all speakers)	30 minutes

Session 5

REPEATED DOSE TOXICITY & CARCINOGENICITY

Date: Wednesday 6th November 2024, 10:00-12:00

Moderator: Dr Lesley Reeve (Fortrea Drug Development**)**

Welcome & introduction: Moderator	5 minutes
Topic 1: Repeated dose toxicity: general principles. Dr Meera Cush, Ramboll	25 minutes
Topic 2: Carcinogenicity studies. Helen-Marie Dunmore, Charles River	25 minutes
Topic 3: Pathological findings. Dr Cheryl Scudamore, RSA	25 minutes
Question and Answer Session (Moderator & all speakers)	30 minutes

Session 6

DART & Endocrine Disruptors

Date: Tuesday 3rd December 2024, 10:00-12:00

Moderator: Professor Shirley Price (University of Surrey)

Welcome & introduction: Moderator	5 minutes
Topic 1: Developmental toxicity studies. Dr Hollie Blunt, Sequani	25 minutes
Topic 2: Overview of endocrine disruption. Dr Jason Manton (Toxiqua)	25 minutes
Topic 3: Use (and potential future use) of NAMs in repeated dose toxicity and DART. Dr Matthew Dent (Unilever)	25 minutes
Question and Answer Session (Moderator & all speakers)	30 minutes

Workshop

Case studies: use of toxicity studies in the risk assessment of industrial chemicals / agrochemicals / biocides / pharmaceuticals / cosmetics; decision on registrability / safety; setting reference values, use of assessment factors.

The number and location of the workshops will depend on registration numbers and the geographical location of registrants. One workshop will be held in Liverpool, with another likely to be held in central London on a different day.

22nd January 09.30-16.00: HSE, Liverpool

Date TBC: 09.30-16.00 on TBC, Central London location