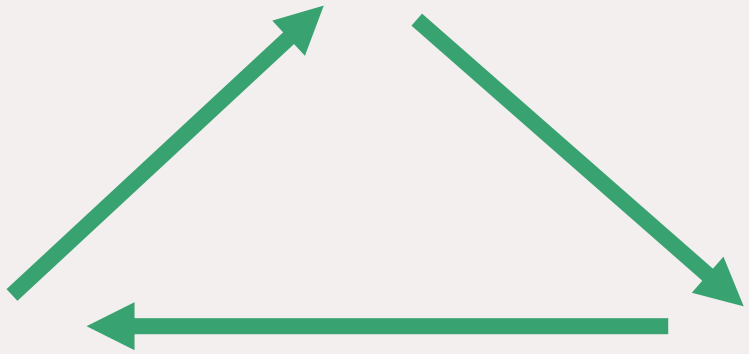
Recap of Day 1 (covid-brain dump last night)

1. Part of a series of related activities in ECETOX PBK/ivive, omics PoD and qAOPs
2. How the AOP is used as an organising framework to guide tool generation but that, despite the investment in Effectopedia, qAOPs have not yet been submitted in the AOP Wiki
3. Importance of moving from free text to structured data and metadata capture of both methods and results to enable more rapid progress in describing KERs
4. How can we use the confidence and empirical support information on KERs to choose the most relevant parts of an AOP to include in a model
5. Importance of reporting frameworks and templates as a common tool to enable communication and build confidence
6. Variety of possible modelling approaches
7. Can build complex multiscale model of an AOP but also they can be simplified, with the addition of uncertainties
8. qAOPs are not entirely chemical agnostic – at a minimum they require some chemical specific data around exposure and effect
9. Scope: AOP networks and how to include them in a modelling framework
10. Understanding the quality and variation in the underlying data
11. Building best practice, guidance and linking/co-ordinating the various groups working on elements of this so we don't reinvent the wheel

Q1. How would you choose the most appropriate level of biological detail to include in your qAOP?



30-35 min per question to discuss and capture the outcomes for discussion in the feedback session

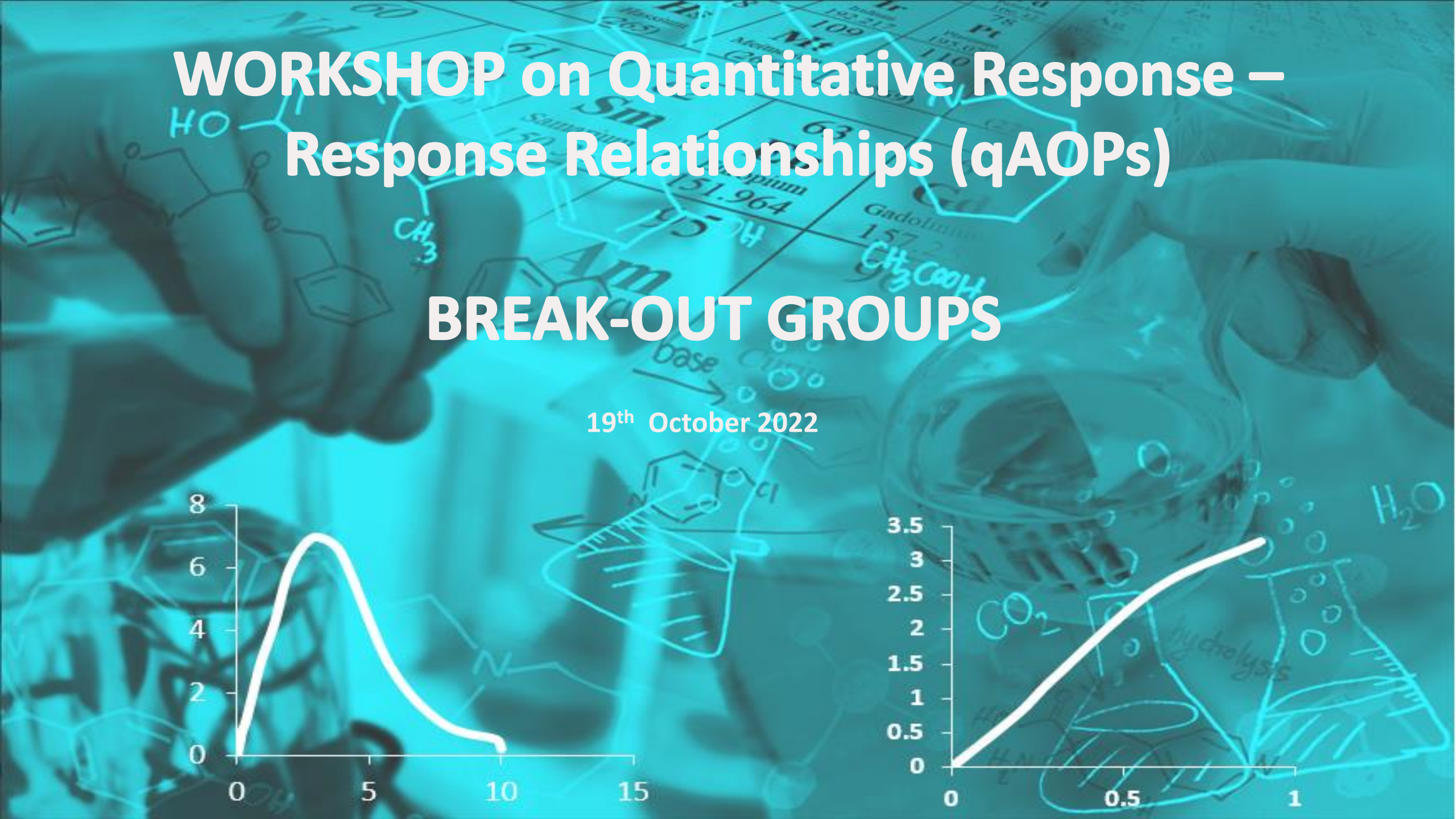
Q3. How do we ensure the quality assurance and accessibility of qAOP models and their predictions?

Q2. How and why would you choose the most appropriate modelling approach?

WORKSHOP on Quantitative Response – Response Relationships (qAOPs)

BREAK-OUT GROUPS

19th October 2022



Housekeeping notes for online participants

- You will automatically be muted when connecting online. Click on the ‘mute/unmute’ button to unmute yourself.
- Please use ‘Raise your hand’ to speak and mute your microphone when you’re not speaking
- Please use the chat to ask questions or leave comments
- To cover all questions, each group is invited to start with a different question
- When the breakout sessions end, you’ll be automatically redirected to the main meeting

Q1

- How would you choose the most appropriate level of biological detail to include in your qAOP?

For example:

•What data should we get and how to organise it?

•How do you judge how complete (in term of the number of key events required to describe the toxicological response) a qAOP needs to be?

•How do you judge the level of complexity (in terms of detailed biochemical/physiological/biological mechanisms and feedbacks) that is required?

Q2

- How and why would you choose the most appropriate modelling approach?

For example:

•What are the pros and cons of different modelling approaches?

•What are the methods for extrapolating from short-term to longer term exposures?

•How faithful should the model structure be to the qualitative AOP?

Q3

- How do we ensure the quality assurance and accessibility of qAOP models and their predictions?

•What would be the quality assurance criteria for the underlying data?

•Which open standards support qAOP development? Are there any gaps?

•How do we ensure the FAIRification of qAOP models and underling data?