

Trusted science for safe food

Webinar: MetaPath - how to complete DER composers for pesticides mammalian toxicology metabolism studies

14.00-18.00 Parma (IT) time 7.00-11.00 Duluth (USA) time





TIME	ITEM
14:00-14.15	Introduction & presentation of the project
14:15-15:00	Opening DER
	General info
	Material and methods
	-Theory
	-Live demo of data entry
	-Summary key points
	-Q&A
15:00-15:45	Appendix 1a and Appendix 2
	Material and methods.
	Study design
	-Theory
	-Live demo of data entry
	-Summary key points
	-Q&A
15:55-16:10	Coffee break
16:10-16:55	Results - Pharmacokinetic studies
	-Theory
	-Live demo of data entry
	-Summary key points
	-Q&A
16:55-17:40	Results - Metabolite characterization studies
	Conclusions
	Theory
	Live demo of data entry
	Summary key points
	Q&A
17.40-18.00	Key points -Data Entry Flowchart
	Q&A
	1.3

Speaker: Juan Manuel Parra (EFSA)

Speaker: Richard Kolanczyk (US EPA)

Moderator: Martina Panzarea (EFSA)

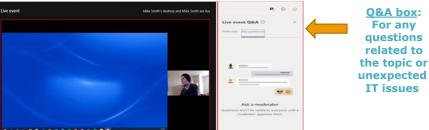
IT Support: Carla Dall'Aglio and Alberto Goldoni (EFSA)

Events Team: Francesco Amoretti (EFSA)



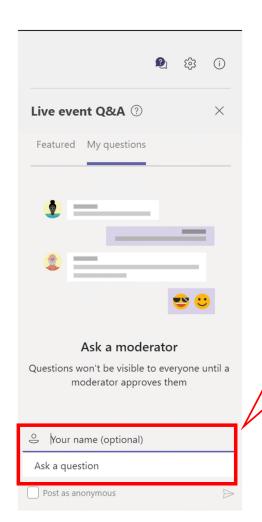
Webinar guide for attendees

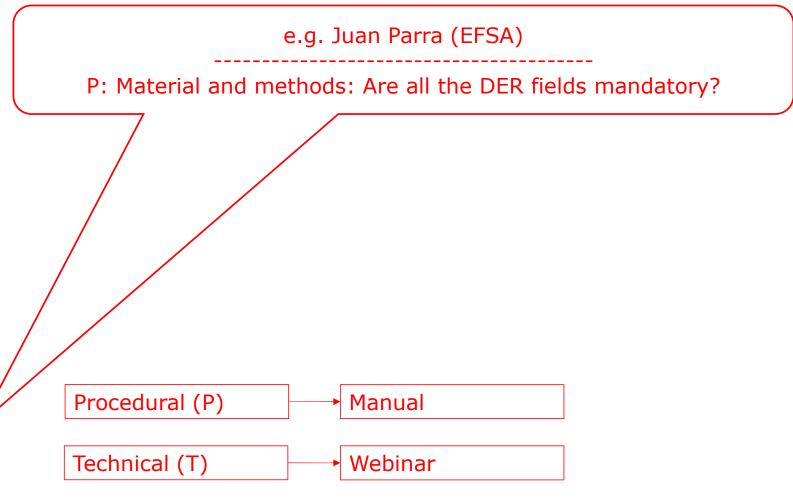
- This webinar is being recorded
- The webinar is in English and questions should be submitted in English through the platform (see hereunder).
- You are automatically connected to the audio broadcast. One-way audio (<u>listen</u> <u>only</u> mode).



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Introduction and presentation of the project MetaPath

Juan Manuel Parra Morte

Toxicologist Pesticide Peer Review Unit



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- Why?
- •What?

Who?

Why are we here?



- According to the EU data requirements on pesticides, metabolism studies are required in several areas:
 - Toxicology: Lab species (e.g. rat)
 - Residues: Plants (e.g. maize) or Livestock (e.g. goat)







Why are we here?



Contract Research Organisation (CRO)/Academia

Conduct the studies

Industry

Sponsor the studies

#metabolism

Risk Assessors

Assess the studies

Computational toxicologist

Predict the outcome

Public

 See how studies are assessed



Why are we here?



- Transparency Regulation:
 - EFSA has new requirements for capturing, managing, handling and distributing data on plant protection products (PPP).
 - Use of **IUCLID** (managed by the European Chemicals Agency – ECHA)
 - Furthermore, applicants should provide data on metabolism in the areas of residues and mammalian toxicology as attachments generated with the MetaPath software package







What is Metabolic Pathways?



Purpose

- Freely available software:
 - Data analysis ("MetaPath")
 - Data entry ("Composers")

Electronic databases

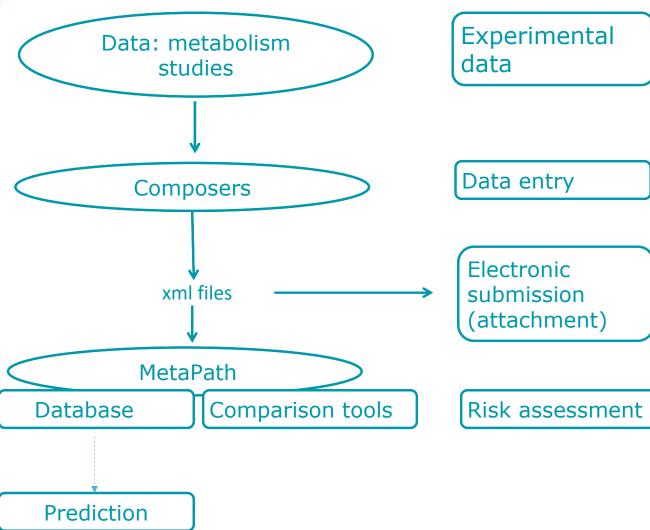
Archiving, sharing and analyzing experimental data on metabolism, metabolic pathways and crucial supporting metadata.

https://oasislmc.org/products/software/metapat h.aspx

- 1) Regulatory Legacy collection of maps.
- 2) EFSA Public collection of maps

https://www.efsa.europa.eu/en/appl
ications/pesticides/tools











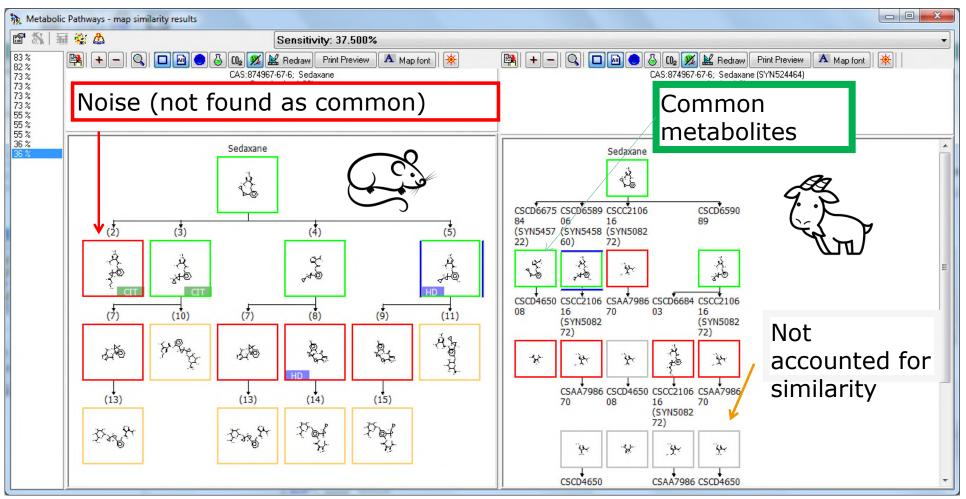












MetaPath video tutorials: https://www.efsa.europa.eu/en/applications/pesticides/tools



Composers: data entry software





Metabolism Study Summaries (MSS)





https://www.efsa.europa.eu/en/events/event/metapath-how-complete-mss-composers-pesticides-metabolism-studies

Data Evaluation Record (DER)



Customized screen editors developed to automate data entry into MetaPath while also streamlining the production of agency specific study summaries such as the Data Evaluation Records (DER) used by the US EPA Office of Pesticide Programs



- International collaboration:
 - OECD MetaPath User Group (MUG): industry, regulatory agencies around the world.
 - EFSA joined some years ago.
 - Born in the USA, with the US EPA leadership in collaboration with Laboratory of Mathematical Chemistry (LMC).

Who?



- Richard C. Kolanczyk
- U.S. EPA Mid-Continent Ecology Division, National Health and Environmental Effects Research Laboratory, Office of Research and Development (ORD)

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