

SciPinion

The Collective Wisdom Company

Oral Comments

PRESENTED TO:
EPA SCIENCE ADVISORY BOARD PFAS REVIEW PANEL

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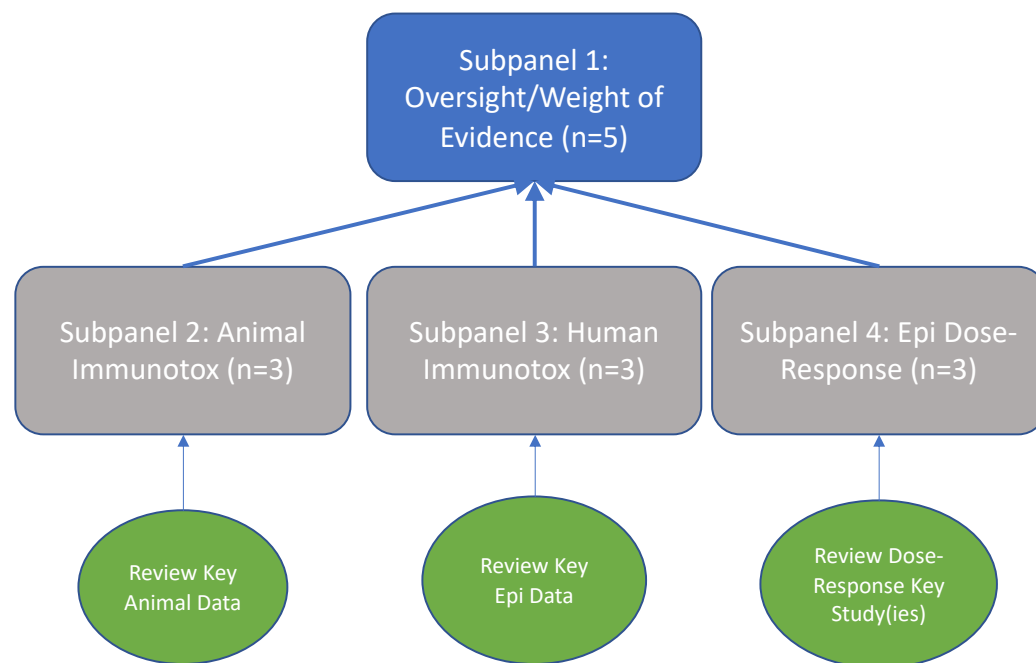
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Who is SciPinion?

- SciPinion (**Sci**ence o**Pinion**) is a resource for decision makers:
 - Mission: To engage the world's experts to share their collective wisdom on the toughest science problems
 - Build a better model for peer review
 - Minimize potential sources of bias in panel selection, engagement, and reporting to provide high-quality input to the decision-making process

SciPinion PFAS Projects

- **PFAS Grouping**
 - International Panel of 11 experts (+1 topic lead)
 - PFAS definitions, grouping, and risk assessment
 - Panel work is complete, manuscript submitted
 - Sponsored by ACC
- **PFAS Immunotoxicity**
 - International panel of 14 experts (+2 topic leads)
 - Tiered panel design (see figure)
 - Panel work is ongoing
 - Completion and manuscript submission expected early summer
 - Sponsored by ACC

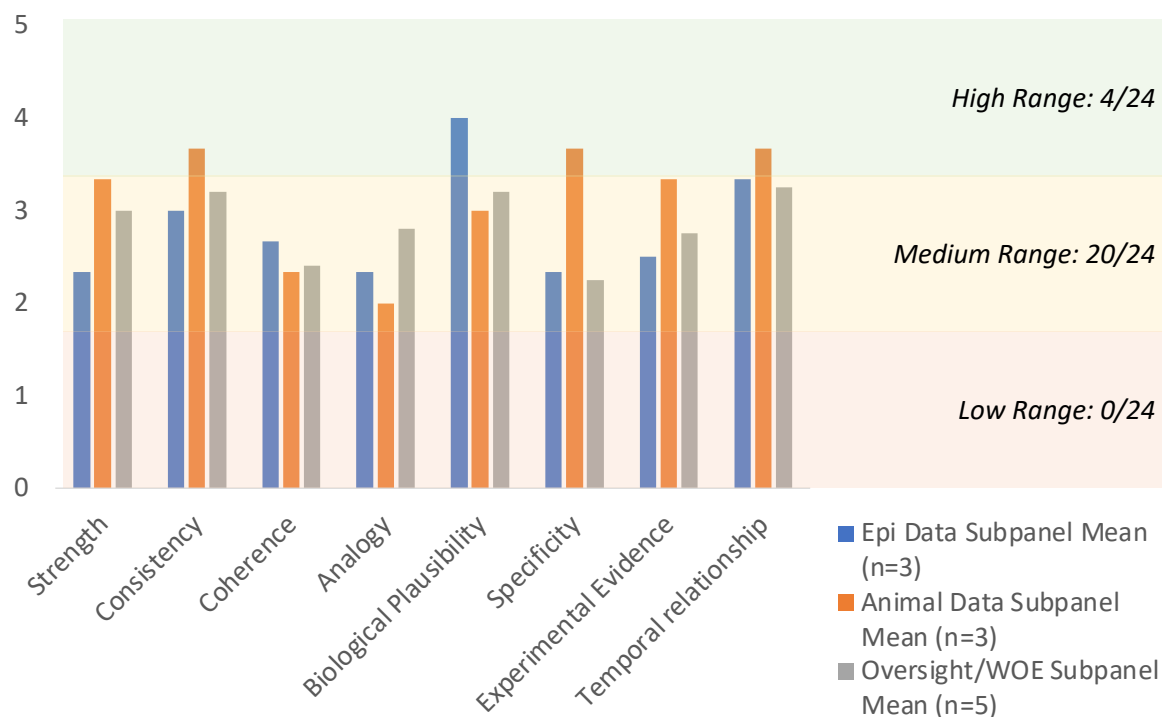


PFAS Immunotoxicity Expert Panel: Interim Input

- Expert panel shares many of the same concerns identified by SAB
 - More careful consideration and treatment of co-exposures to other PFAS in human studies (e.g., Budtz-Jorgensen and Grandjean, 2018)
 - This should be extended to other co-exposures/covariates as well (e.g., PCBs, methylmercury)
 - Additional details and/or independent replication is needed for dose-response modeling
 - A report of interim input on the interpretation and application of Budtz-Jorgensen and Grandjean (2018) study has been provided to the SAB
- For decreased immune response for PFOA and PFOS, interim results from the panel support a characterization of the evidence as moderate or medium confidence (see interim results figure)
- Panel work is ongoing & subject to change, and more panel input to become available soon

Immunotoxicity Panel Interim Input

For PFOA, please rate your confidence (1=low, 5=high) in a causal relationship between PFOA/PFOS exposure and immunotoxicity using the modified Bradford-Hill criteria (USEPA, 2005)



- Based upon these interim results, a characterization of the evidence as “moderate” is supported.
- Similar results obtained for PFOS
- Note panel work is ongoing and subject to change pending inter-panel comment & debate