Breakout Group Questions

In Vitro to In Vivo Extrapolation for High Throughput Prioritization and Decision Making

- During the discussion, keep in mind the following global questions:
 - o What are the effects/implications when considering human vs. rat values, or non-animal vs. in silico values?
 - How are we defining the "purpose" in fit-for-purpose, and what are the implications for using the approach or assumption in each application (prioritization/screening/risk assessment)?

	Group A: TK Model Considerations	Group B: In Silico and Non-Animal Methods for Obtaining TK Parameters	Group C: Application to Prioritization/ Screening/Risk Assessment
Session 1 8:30- 10:00 a.m.	 What needs to be done to determine the state of the science (including current toolbox)? How well are these tools working for understood chemicals / kinetic processes? What are the pros and cons of a simple (one-compartment) model? How do we assess when models are good enough? 	 What experiments/methods are needed for determining oral bioavailability? What about methods for other routes of exposure? What is best practice for rapidly parameterizing a model? How should confidence in these parameters be evaluated and reported? 	 Who are the stakeholders? What are their needs? How do their needs vary? How do we increase buy-in and what are the training needs? On regulatory and industry side? How do we build capacity and what resources are needed?
Session 2 10:15- 11:45 a.m.	 How can the in vitro output be related to the in vivo toxicity/adverse outcome? How do we validate methods and approaches (context, limitations, scope)? 	 How do we define the domain of applicability for the in silico models? How should this be evaluated and reported? How do we store/share models and information/data? What reporting requirements are needed? Do existing reporting formats currently exist, or can existing formats be changed to meet our needs? 	 Can IVIVE refine how default uncertainty factors are applied? Can it be used to develop data-driven uncertainty factors (interspecies and inter-individual)? What are the requirements or implications for use in prioritization/regulation? What areas are ready to incorporate IVIVE in the short term? In the long term?