AOP Knowledge Base/Wiki Tool Set
Stephen W. Edwards
1 Integrated Systems Toxicology Division, National Health and Environmental Effects Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Research Triangle Park, NC 27711, USA

Adverse Outcome Pathways (AOPs) represent an ideal framework for connecting HTS toxicity testing results to adverse outcomes of regulatory importance. The AOP Knowledgebase (AOP-KB) captures AOP information to facilitate the development, evaluation, and use of new AOPs. The AOP-KB is designed to capture structured information to facilitate computational modeling efforts while also capturing free text descriptions to provide additional information important for regulatory decision making. Fully describing an AOP can be labor intensive and requires a broad range of expertise, so the AOP-KB is specifically designed to encourage crowd-sourcing of the AOP development effort. In particular, the key events within the AOP are shared across all AOPs in the system, so that no one has to repeat information that has been previously entered and so all information for a key event is captured in a single location. The AOP-KB consists of four main components: AOP-Wiki, Effectopedia, AOP-Xplorer, and Intermediate Effects DB. This talk will describe the current capabilities of the AOP-KB with an emphasis on the AOP-Wiki component, which is currently the primary location for AOPs developed under the OECD AOP Development Programme. Future directions for the AOP-KB, including efforts to streamline the AOP development process will also be discussed.

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