This poster summarizes the current status of this ongoing effort and describes the criteria used to identify studies, the data extracted from them, the chemicals assessed, and summary information about the data set. Literature Searches and Data Extractions

- To limit the scope of the chemical space being evaluated, NTP established an information panel of experts from industry, academia, and government, who identified several hundred chemicals to evaluate.
- Once the initial list of chemicals was established, we began searches of the publicly available scientific literature. To determine the scope of the available literature, our initial searches focused on the peer-reviewed scientific literature (Figure 2) for 17 chemicals.
- Searches were designed to identify “regulatory guideline-like” studies, which were defined as using protocols where toxicity was clearly associated with developmental toxicity.
- The search of the peer-reviewed literature returned thousands of studies describing studies on these chemicals. Most of the protocols used in these studies were not guideline-like.
- In an effort to develop useful guidelines, study data for a broader range of chemicals, we returned to the original list identified by the information panel and expanded the search to include non-peer-reviewed literature and data from studies that have not yet been peer-reviewed published. The complete set of databases searched is presented in Figure 2.

Future Directions

- Data cleaning, standardization, and annotation is ongoing to prepare the data for submission to the NTP Chemical Effects in Biological Systems (CEBS) and Integrated Chemical Environment (ICE) databases.
- More information about CEBS is available online at https://ntep.nih.gov/research/aboutdatabasestocan/
- More information about the ICE database will be presented at the SCIT.

- Bell et al., Abstract 2023, Poster Board #429, presented on Wednesday, March 15, 1:00-4:00 p.m., CO-Exhibit Hall
- Exhibitor-hosted session, "ICCVAM Tools for Validation and Regulatory Application of Alternatives Methods," Wednesday, March 15, 1:30-2:30 p.m., Room 207
- Once available in both databases, this data will provide an important resource for evaluating the performance of alternative methods that measure key events in pathways associated with developmental toxicity.

References

Judson et al. 2009; Richard et al. 2016)
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