ToxRefDB 2.0: Improving in Capturing Qualitative and Quantitative Data from in vivo Toxicity Studies

ToxRefDB Overview

ToxRefDB (ToxRefDB) serves as a resource for retrospective and predictive toxicology.

- ToxRefDB stores large sets of guideline and guideline-like in vivo chemical toxicological data.
- ToxRefDB offers an enhanced chemical toxicity database.
- It provides a standardized terminology for generating guideline level information.
- ToxRefDB has an endpoint observation status that distinguishes between negative vs. endpoint observed.
- ToxRefDB has treatment-related data collection and assessment.
- ToxRefDB has enhanced reliability assessment tools.
- ToxRefDB has improved data entry methods.
- ToxRefDB has enhanced chemical library expansion.

Building ToxRefDB 2.0:

- ToxRefDB 2.0 standardized terminology for endpoints and effects.
- ToxRefDB 2.0 improved the endpoint observation status.
- ToxRefDB 2.0 expanded chemical library.

Endpooint Observation Status

- ToxRefDB 1.0 endpoint observation status was discussed.
- The endpoint observation status was 1/true for observed effects.
- The endpoint observation status was 0/false for non-observed effects.

Data Entry Method

- ToxRefDB 2.0 improved data entry methods.
- ToxRefDB 2.0 provides endpoint observation status.
- ToxRefDB 2.0 provides treatment-related data collection.

StudY Reliability with ToxRefDB

- ToxRefDB 2.0 enhances study reliability.
- ToxRefDB 2.0 provides additional information on study reliability.

Guideline Profiles

- ToxRefDB 2.0 improved guideline profiles.
- ToxRefDB 2.0 provides a new profiling portion of database.

Benchmark Dose Modeling

- ToxRefDB 2.0 improved benchmark dose modeling.
- ToxRefDB 2.0 provides improved BMD analysis.

Conclusions and Future Directions

- ToxRefDB 2.0 improves in capturing qualitative and quantitative data.
- ToxRefDB 2.0 enhances study reliability.
- ToxRefDB 2.0 improves guideline profiles.
- ToxRefDB 2.0 improves benchmark dose modeling.