Datasets for pre-clinical and clinical R&D

Discover comprehensive, trusted, machine-readable data to:

- Build and train models for predictive toxicology applications.
- Compute animal-human model concordance.
- Build and train various QSAR models.
- Build out predictive modelling for clinical outcomes.
- Design effective synthesis scale-up routes.

46M records

8,300 journals (3.3K not found in Medline)

5M conference abstracts

56M substances

9M bioactivity data points

22M FDA post-market reports

2.8M extracted safety & adverse event data

Biomedical data

- Structured biomedical literature, extracted from 8.3k journals (including 3.3k not found in Medline).
- 5.1M conference abstracts from 11.5k conferences (not found in Medline).
- 95 countries represented in journal selection.

Chemistry data

- 23M single-step, full reactions.
- 9M substances with associated bioactivities (target and assay information).
- 56M substances (fact availability, patent references).
- Complete dataset access via API.

Drug safety data

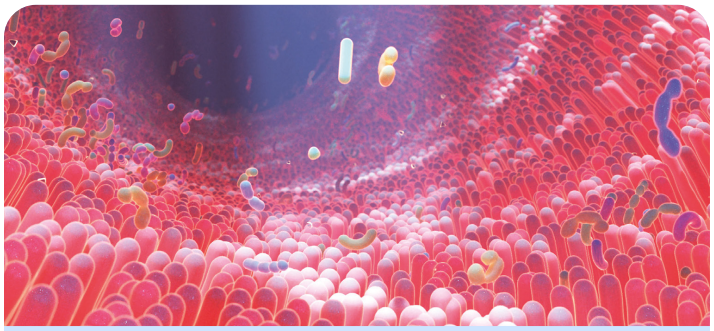
- Structured data extracted from FDA, EMA regulatory documents and literature articles.
- 2.3M extracted PK data records.
- 4.1M extracted efficacy data on clinical trials from regulatory packages.
- 22M FDA FAERS.
- 2.8M Extracted safety and adverse event data.

Numbers as of September 2024, rounded up, and may vary with delivery mechanism.

ELSEVIER

The elements of data quality

- Peer reviewed, highly cited article content.
- Biomedical data structured with Emtree – as recommended by EMA - Guideline on Good Pharmacovigilance Practices (GVP), UK's NICE Interim Clinical Guideline Surveillance Process and Methods Guide and more.
- Human expertise in manual excerption, data science and the scientific domain ensures data accuracy.
- Continual investment in AI/ML excerption drives quality data.
- Clear provenance for evidence-based decisions.
- Semantic enrichment using ontologies adhering to public standards and custom vocabularies.



Case study

Develop an organoid-based predictive toxicology model

Discover how a major pharma company was able to develop an organoid-based predictive toxicology model with the support of Elsevier's domain experts and curated datasets.

Read the full story

Flexible delivery into workflows

Supporting interoperability with your workflows. Enhanced support (consultancy and scripts) for effective data integration.

API

JSON

Flat files

Xocs XML

"We often make decisions based on PharmaPendium's data on how similar compounds passed NDA."

Toxicologist,
Japanese Pharma

"Without this data, it would be impossible to gather all this information and to make cross-discipline search for adverse event prediction."

Director,
Toxicology & Product Safety,
European Pharma

Improve your data foundations – learn more:
elsevier.com/solutions/datasets

ELSEVIER