Datasets

Turn curated scientific knowledge into R&D decisions *you can defend*



Confident decisions need evidence you can trust. Many organizations are building their own AI and R&D environments, but without a trusted foundation to stand on, those efforts struggle to turn experimentation into decisions that hold up under scrutiny.

Elsevier turns trusted scientific content into curated, traceable, scientifically defensible data and connectors that integrate easily into the AI and R&D environments teams already use, with governance and provenance intact.

Elsevier Datasets and connectors, built for your AI environments

Datasets
Curated data and intelligence

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Connectors
AI-ready scientific tools

Customer AI environments
Coordinated, actionable outputs

Where this creates value today

Compound identity & SAR
Lead-optimization discussions move faster, with no ambiguous compound handoffs.

PK assessment
PK compares cleanly across species, route and dose, with everything in one view.

Drug safety evidence
Safety risks surface earlier, with a defensible, source-linked review.

Literature & evidence synthesis
Evidence synthesis runs faster, with traceability that holds up for high-stakes decisions.

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Advancing human progress together

Each layer plays its part

Datasets provide the scientific foundation, connectors enable plug-and-play integration, and your own AI systems turn that into decisions across R&D workflows.

Datasets: Curated data and intelligence

- Molecular, biological, biomedical, PK/PD, safety, regulatory, citation and full-text evidence
- Structured entities, measurements, relationships, study context and source provenance
- Domain depth from Reaxys, PharmaPendium, Embase, EmBiology, ScienceDirect and Scopus

Connectors: AI-ready scientific tools

- The building blocks for custom R&D workflows and AI projects, delivered via MCP and API
- Resolve identity, retrieve evidence, normalize units and conditions, compare findings
- Designed for machine-to-machine use, reducing data engineering and custom integration

Customer AI system: Coordinated, actionable outputs

- Generate actionable outputs across drug R&D workflows
- Coordinate multi-step questions inside the AI environment already in use (e.g. Claude, Copilot etc.)
- Produce evidence-linked decision packages with provenance, confidence metadata and service trails
- Support workflow-level interpretation without replacing the underlying scientific foundation

Connectors turn evidence into reusable scientific insights

The value is not conversational access alone. It is evidence that can be resolved, retrieved, normalized, compared, cited and reused inside governed R&D workflows.

Resolve the scientific entity

- Compound, structure, synonym
- Target, pathway, disease
- Study, endpoint, adverse event

Retrieve evidence in context

- SAR, properties, mechanisms
- PK/PD, safety, toxicology
- Literature, trials, regulatory sources data

Harmonize for comparison

- Units, routes, doses, species
- Assays, parameters, endpoints
- Study design and evidence type

Deliver for decisions

- Evidence links and provenance
- Confidence and uncertainty metadata
- Auditable service trail

Learn more about Elsevier Datasets: elsevier.com/solutions/datasets

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