

Galactic AI™ v3 is the most advanced curation pipeline in the industry

Galactic AI™ identifies, extracts and structures biomedical entities and the relationships between them from unstructured text using fine-tuned LLMs.

Input unstructured documents

PubMed

PMC

bioRxiv

medRxiv

USPTO

EPO

Grants

Drug labels



GALACTIC AI TECHNOLOGY

Fine-tuned LLMs

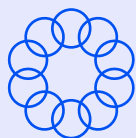
NER and cross-sentence RE,
directional and signed

Structured and FAIR

8 relationship classes and
23 entity classes linked to
22 ontologies

Database-side post-processing

Instant ontology mapping



358M

cause-and-effect
relationships



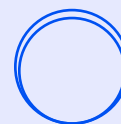
3.5B

entity
annotations



82%

relationship
precision



93%

NER+linking
precision



DELIVERY & ACCESS

Data Download

API

Browser

The Problem:

Data-driven drug discovery needs structured causal evidence to support mechanistic target & biomarker discovery; however, this information is locked in the literature.

The Biorelate solution:

Galactic AI™ is Biorelate's LLM-native curation engine that identifies, extracts & structures biomedical entities and the relationships between them.

Fine-tuned LLM models for NER and RE trained on **10+ years** of curated data & insights.

Cross-sentence discovery yielding **3x more relationships** vs sentence-bound NLP.

Instant ontology updates to expand your research space without re-processing the entire corpus.

61M

processed documents

358M

linked cause-and-effect relationship mentions

55.7M

unique cause-and-effect relationships

3.5B

entity annotations

Combined NER+linking precision

93%

Relationship extraction precision

82%

Data compared to human curated gold standard.
Full model performance benchmarks available on request.

23

entity classes e.g. genes, cell lines, animal models, drugs etc.

8

relationship classes

Galactic AI™ works with your existing stack, choose your integration:

Galactic Data

Relationships and entity annotations delivered as downloadable parquet files to integrate into your own graph, warehouse or ML pipeline.

Galactic API

REST access to connect our data to your apps, with no infrastructure overhead.

Galactic Web

A co-scientist workspace to navigate cause-and-effect paths, biomarker search, etc., with cited evidence.

Galactic Processing

Deploy our models inside your own infrastructure to curate your licensed & proprietary content.

Statistics from Galactic AI v3.4, Oct. 2026

Visit us for a walkthrough

Booth 426, opposite Theatre 7

biorelate.com

