

AILANI™ for Pharma

Intelligent Knowledge Retrieval in Pharma

Searching proprietary & public resources

Research and surveillance of drugs often involves the manual exploration and continuous monitoring of multiple independent data sources which can be both inefficient and time consuming. Furthermore, it is common for the same drug (e.g., paracetamol) to be described using different terms (acetaminophen or efferalgan) which makes the retrieval of relevant data even more difficult.

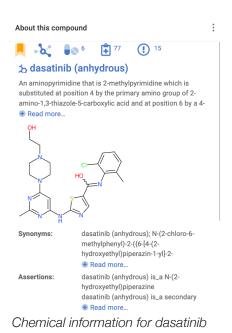
AlLANI for Pharma integrates multiple information sources ranging from medical abstracts, full text articles, different clinical registries, FDA drug labels, patents, newsfeeds as well as databases, such as ChEMBL, PubChem, UniProtKB, PDB and Open Targets that can be easily extended and interlinked with proprietary data. The underlying ontologies allow for synonym recognition which enhance the search expe-

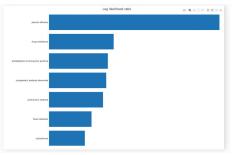
rience. Using the alerting mechanism users can keep up to date with upcoming articles in their field. Relevant documents can be bookmarked, sorted into different folders or exported for further processing.

Specialized chemical, disease and clinical trial reports

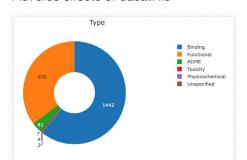
AlLANI goes beyond the first search results, not only providing links to documents. The system knows what a researcher intended to search for and recognizes drug names as antibody or chemical entity. Linked information such as adverse effects or bioactivity data on binding, ADME or toxicity assays can be accessed.

Within Clinical trial reports information on the drugs used and the sponsors involved in the study can be retrieved. Disease reports provide information on associated genes and known drugs.

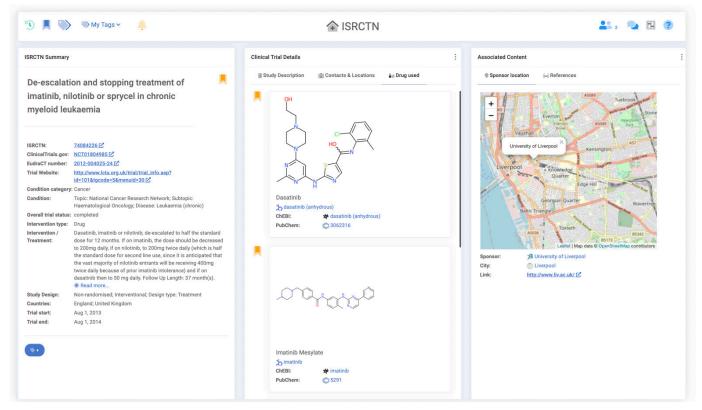




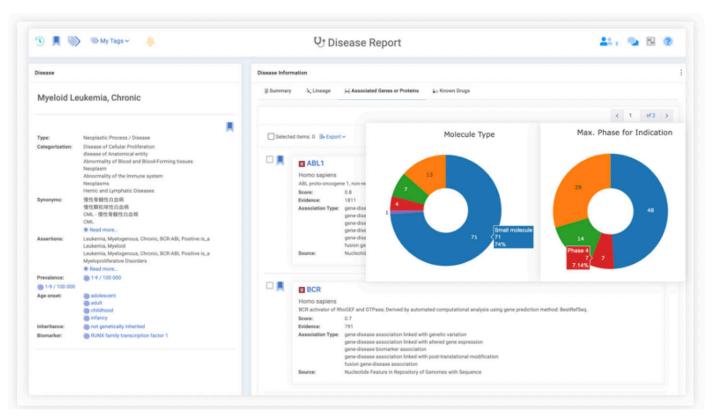
Adverse effects of dasatinib



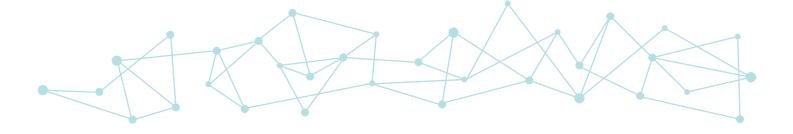
Bioactivity assays with dasatinib



Clinical trial report on chronic myeloid leukemia



Disease report on chronic myeloid leukemia



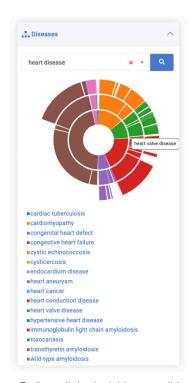
Specialized exploration of drugs, targets and clinical trials

AlLANI Pharma includes specific repositories on drugs, targets and clinical trials.

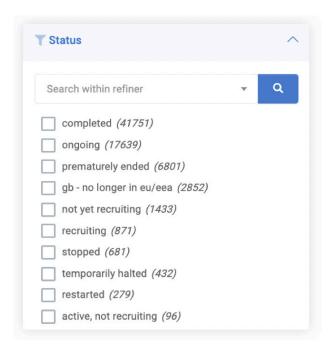
The latter for example, aggregates over 480,000 clinical studies from different trial databases such as ClinicalTrials.gov, the European Clinical Trial register and ISRCTN (International Standard Registered Clinical/Social Study Number). This trial repository can be easily extended to include further relevant clinical trial sources and adjusted for the specific use case.

The use of ontologies for the interactive search allows the user to select every clinical study e.g., that features a heart disease, resulting in an aggregation of clinical trials with conditions such as congestive heart failure, cardiomyopathy, or atrial fibrillation.

The results of this search can be then further refined with "statins", in order to present a list of all heart disease studies, in which a statin was used or filtered according to the starting date or the trial status.



Refine clinical trial by condition



Refine clinical trial by status

Intelligent answers for current trends in the pharmaceuticals market

AlLANI supports natural language questions while hiding the complex logic from the user. This allows for an easy access to the continuously growing public or hidden corporate knowledge also for non-experts. You might to know the answer to the following questions:

- > What interacts with dasatinib?
- > How many people worldwide suffer from diabetes?
- Which allele-specific covalent inhibitors against KRAS are being tested in the clinic?
- > Which pharmaceutical companies have compounds in development against SARS-CoV-2 protease?



Why choose AlLANI for Pharma?

The integration and interconnection of your organization proprietary data along with the Al-based semantic search provides an easy access to public and corporate knowledge in one system. Comprehensive literature search in the healthcare sector is facilitated, thereby supporting clinical, pharmaceutical, public health and policy decisions.



AILANI for Pharma

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