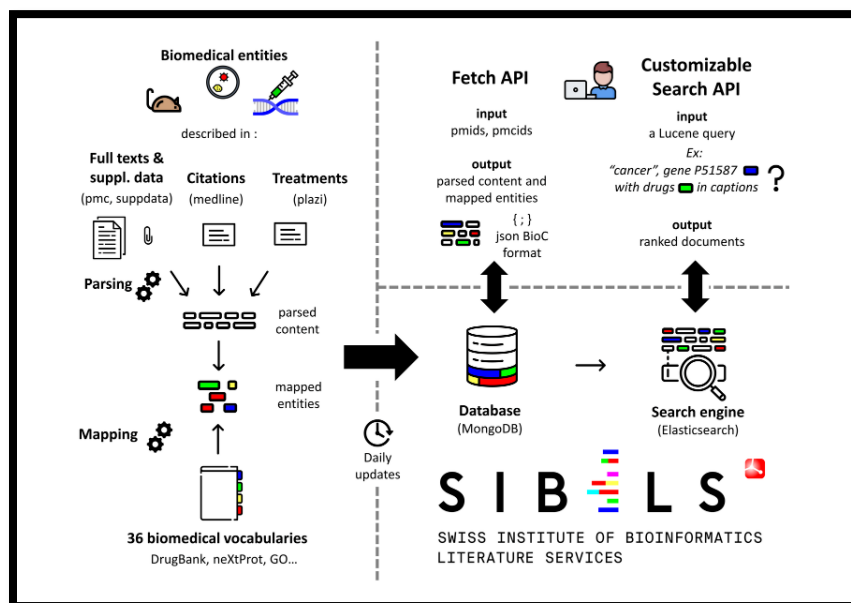


Swiss Institute of Bioinformatics Literature Services – SIBiLS

Indeed, SIBiLS allow fully customizable search in semantically enriched contents, based on keywords and/or mapped biomedical entities from a growing set of standardized and legacy vocabularies. The services have been used and favourably evaluated to assist the curation of genes and gene products, by delivering customized literature triage engines to different curation teams. SIBiLS today cover 4 collections: MEDLINE, PubMedCentral (PMC), Plazi treatments, and PMC supplementary files. Collections are daily updated. Contents are parsed, then enriched by billions of mapped biomedical entities from reference vocabularies. Output are json, in BioC (for fetch) or native Elasticsearch (for search) formats.



What is the BiodiversityPMC?

The BiodiversityPMC is the SIBiLS search APIs that allows to interrogate the search engines with fully customizable queries.

SIB L S
SWISS INSTITUTE OF BIOINFORMATICS
LITERATURE SERVICES

BiodiversityPMC

Search

Advanced options

Number of results for the search mode: 250

Date range: from [] to [] [last year](#) [last month](#) [last week](#)
*For MEDLINE and PMC collections.

☒ Enable automatic transformation of the query

☒ Enable automatic normalization of the query

This API allows to ask questions in natural languages, and to obtain answers extracted from documents from a given collection. The power of this service is based on previous Elasticsearch indexes, and BERT language model. For example: asking for "what diseases are transmitted by ticks?" in Plazi treatments. The input is a free text question. The output is a set of answers, ranked by scores, along with documents' snippet.

Examples

Search examples

Halacarid mites
Ixodiphagus hookeri
Microbial risk assessment for Salmonella enteritidis in eggs

Question-answering examples

The question-answering mode is limited to MEDLINE and PLAZI collections.

What diseases are associated with ticks?
What is the gestation time of pangolins ?
What is the tail size of pangolins ?
When is the sexual maturity of pangolins ?
Where potamopyrgus antipodarum are invasive ?
What species can be vector of eggs of Dermatobia hominis ?

Examples for other services

Find all documents about POLG1 (R722H)
Find all biotic interactions between Phengaris arion and Myrmica sabuleti
Find all annotations of PMC2196267

What is new in the BiodiversityPMC?

This is a user-friendly search API which allows data access through simple and direct questions phrased by the user. Moreover, advanced options of queries make the tool customizable for different intents.