

Resource Summary Report

Generated by T1D on Sep 5, 2026

BioRAT: A Search Engine and Information Extraction Tool for Biological Research

RRID:SCR_013452

Type: Tool

Proper Citation

BioRAT: A Search Engine and Information Extraction Tool for Biological Research
(RRID:SCR_013452)

Resource Information

URL: http://bioinf.cs.ucl.ac.uk/software_downloads/biorat/

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Description: BioRAT is a virtual research assistant, which will find research papers for users, read them, and tell users the key facts it finds. It is part of an ongoing research project, and so is NOT a highly-polished, well-supported, fully-documented system that we might dream of. With suitable cajoling, it will let users find and download biological research papers, principally through PubMed. It will let them specify patterns of interesting words / phrases, and use these to read papers. Lastly, it will put the results into a variety of useful formats, including XML and HTML. A large and growing amount of information is published every year in scientific journals. In the biomedical field, there are thousands of journals, each publishing many issues annually, any one of which could contain information that is relevant to a researcher. However, no one has time to read every paper. One solution is to use a software tool to search through publications to identify important results in response to the users' queries. BioRAT is such a tool. BioRAT is a new information extraction (IE) tool, specifically designed to perform biomedical IE, and which is able to locate and analyse both abstracts and full-length papers. BioRAT is a Biological Research Assistant for Text mining, and incorporates a document search ability with domain-specific IE. Overall, BioRAT recalled 20.31% of the target facts from the abstracts with 55.07% precision, and achieved 43.6% recall with 51.25% precision on full-length papers. Sponsors: The ongoing project is now funded by the BBSRC.

Synonyms: BioRAT

Resource Type: software resource, text-mining software, software application, data analysis software, data processing software, text extraction software

Keywords: facts, biological, document, paper, research, scientific literature databases and services, journal

Resource Name: BioRAT: A Search Engine and Information Extraction Tool for Biological Research

Resource ID: SCR_013452

Alternate IDs: nif-0000-21061

Old URLs: <http://bioinf.cs.ucl.ac.uk/biorat/>

Record Creation Time: 20220129T080316+0000

Record Last Update: 20260903T235216+0000

Ratings and Alerts

No rating or validation information has been found for BioRAT: A Search Engine and Information Extraction Tool for Biological Research.

No alerts have been found for BioRAT: A Search Engine and Information Extraction Tool for Biological Research.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.