Resource Summary Report

Generated by dkNET on May 18, 2025

BioBERT

RRID:SCR_017547
Type: Tool

Proper Citation

BioBERT (RRID:SCR_017547)

Resource Information

URL: https://github.com/dmis-lab/biobert

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Description: Pre-trained biomedical language representation model for biomedical text mining. This repository provides fine-tuning codes of BioBERT, language representation model for biomedical domain, especially designed for biomedical text mining tasks such as biomedical named entity recognition, relation extraction, question answering, etc.

Synonyms: Bidirectional Encoder Representations from Transformers for Biomedical Text Mining

Resource Type: software resource, software application

Defining Citation: DOI:10.1093/bioinformatics/btz682

Keywords: Pretrained, biomedical, language, representation, model, text, mining, bio.tools

Funding: National Research Foundation of Korea

Availability: Free, Available for download, Freely available

Resource Name: BioBERT

Resource ID: SCR_017547

Alternate IDs: biotools:biobERt

Alternate URLs: https://github.com/naver/biobert-pretrained, https://bio.tools/BioBERT

License: Apache License

Record Creation Time: 20220129T080335+0000

Record Last Update: 20250513T061857+0000

Ratings and Alerts

No rating or validation information has been found for BioBERT.

No alerts have been found for BioBERT.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 34 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Ghelfi A, et al. (2025) Hayai-Annotation: A functional gene prediction tool that integrates orthologs and gene ontology for network analysis in plant species. Computational and structural biotechnology journal, 27, 117.

Gonzalez Hernandez F, et al. (2024) Named entity recognition of pharmacokinetic parameters in the scientific literature. Scientific reports, 14(1), 23485.

Kim K, et al. (2024) Multifaceted Natural Language Processing Task-Based Evaluation of Bidirectional Encoder Representations From Transformers Models for Bilingual (Korean and English) Clinical Notes: Algorithm Development and Validation. JMIR medical informatics, 12, e52897.

Li N, et al. (2024) Drug-target interaction prediction using knowledge graph embedding. iScience, 27(6), 109393.

Huang DL, et al. (2024) A Combined Manual Annotation and Deep-Learning Natural Language Processing Study on Accurate Entity Extraction in Hereditary Disease Related Biomedical Literature. Interdisciplinary sciences, computational life sciences, 16(2), 333.

Alamro H, et al. (2024) BioBBC: a multi-feature model that enhances the detection of biomedical entities. Scientific reports, 14(1), 7697.

Sharma T, et al. (2024) Exploring COVID-related relationship extraction: Contrasting data sources and analyzing misinformation. Heliyon, 10(5), e26973.

Rehana H, et al. (2024) Evaluating GPT and BERT models for protein-protein interaction identification in biomedical text. Bioinformatics advances, 4(1), vbae133.

Rehana H, et al. (2023) Evaluation of GPT and BERT-based models on identifying proteinprotein interactions in biomedical text. ArXiv.

Upadhyay R, et al. (2023) Explainable online health information truthfulness in Consumer Health Search. Frontiers in artificial intelligence, 6, 1184851.

Khondkaryan L, et al. (2023) Datasets Construction and Development of QSAR Models for Predicting Micronucleus In Vitro and In Vivo Assay Outcomes. Toxics, 11(9).

Houssein EH, et al. (2023) Heart disease risk factors detection from electronic health records using advanced NLP and deep learning techniques. Scientific reports, 13(1), 7173.

Kim J, et al. (2023) Bat4RCT: A suite of benchmark data and baseline methods for text classification of randomized controlled trials. PloS one, 18(3), e0283342.

Lou Y, et al. (2023) Dictionary-based matching graph network for biomedical named entity recognition. Scientific reports, 13(1), 21667.

Jin Q, et al. (2022) State-of-the-Art Evidence Retriever for Precision Medicine: Algorithm Development and Validation. JMIR medical informatics, 10(12), e40743.

Cuffy C, et al. (2022) Exploring Representations for Singular and Multi-Concept Relations for Biomedical Named Entity Normalization. Proceedings of the ... International World-Wide Web Conference. International WWW Conference, 2022, 823.

Elangovan A, et al. (2022) Large-scale protein-protein post-translational modification extraction with distant supervision and confidence calibrated BioBERT. BMC bioinformatics, 23(1), 4.

Wang Y, et al. (2022) Conditional Probability Joint Extraction of Nested Biomedical Events: Design of a Unified Extraction Framework Based on Neural Networks. JMIR medical informatics, 10(6), e37804.

Wood DA, et al. (2022) Deep learning to automate the labelling of head MRI datasets for computer vision applications. European radiology, 32(1), 725.

Yoon W, et al. (2022) Sequence tagging for biomedical extractive question answering. Bioinformatics (Oxford, England), 38(15), 3794.