

Resource Summary Report

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EVEREST - EVolutionary Ensembles of REcurrent SegmenTs

RRID:SCR_007650

Type: Tool

Proper Citation

EVEREST - EVolutionary Ensembles of REcurrent SegmenTs (RRID:SCR_007650)

Resource Information

URL: <http://www.everest.cs.huji.ac.il>

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Description: EVEREST is an automatic process of identifying and classifying of protein domains. Users can search for specific proteins using Protein ID or name, browse through protein families, and upload/download protein sequence data. EVEREST combines methodologies from the fields of finite metric spaces, machine learning and statistical modeling and achieves state of the art results. The process begins by constructing a database of protein segments that emerge in an all vs. all pairwise sequence comparison. It then proceeds to cluster these segments into putative domain families, choosing the best putative families using machine learning techniques, and creating a statistical model for each of the chosen families. This procedure is then iterated: The aforementioned statistical models are used to scan all protein sequences, to recreate a segment database and to cluster them again. Performance was evaluated by comparing with Pfam and SCOP.

Abbreviations: EVEREST

Resource Type: database, data or information resource

Keywords: protein domain, protein domain classification, protein domain identification

Resource Name: EVEREST - EVolutionary Ensembles of REcurrent SegmenTs

Resource ID: SCR_007650

Alternate IDs: nif-0000-02822

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260808T190406+0000

Ratings and Alerts

No rating or validation information has been found for EVEREST - EVolutionary Ensembles of REcurrent SegmenTs.

No alerts have been found for EVEREST - EVolutionary Ensembles of REcurrent SegmenTs.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Tan CS, et al. (2016) EVEREST study report 3: diagnostic challenges of polypoidal choroidal vasculopathy. Lessons learnt from screening failures in the EVEREST study. Graefe's archive for clinical and experimental ophthalmology = Albrecht von Graefes Archiv fur klinische und experimentelle Ophthalmologie, 254(10), 1923.

Nodari S, et al. (2010) Clinical utility of tolvaptan in the management of hyponatremia in heart failure patients. International journal of nephrology and renovascular disease, 3, 51.