## **Resource Summary Report**

Generated by <u>NIF</u> on May 22, 2025

# **GPU-BLAST**

RRID:SCR\_011820 Type: Tool

**Proper Citation** 

GPU-BLAST (RRID:SCR\_011820)

#### **Resource Information**

URL: http://archimedes.cheme.cmu.edu/?q=gpublast

Proper Citation: GPU-BLAST (RRID:SCR\_011820)

**Description:** Software for an accelerated version of the popular NCBI-BLAST using a general-purpose graphics processing unit (GPU). It s nearly four times faster, while producing identical results. GPU-BLAST supports: protein alignment according to blastp (it does not support psiblast), multiple CPU threads working in parallel with a single GPU, and input files with multiple protein queries.

Abbreviations: GPU-BLAST

Resource Type: software resource

Defining Citation: PMID:21088027

Keywords: c++, gpu/cuda

Funding:

Availability: Free, Public, Acknowledgement requested

Resource Name: GPU-BLAST

Resource ID: SCR\_011820

Alternate IDs: OMICS\_00995

Old URLs: http://eudoxus.cheme.cmu.edu/gpublast/gpublast.html

Record Creation Time: 20220129T080306+0000

Record Last Update: 20250519T203709+0000

#### **Ratings and Alerts**

No rating or validation information has been found for GPU-BLAST.

No alerts have been found for GPU-BLAST.

#### Data and Source Information

Source: <u>SciCrunch Registry</u>

### **Usage and Citation Metrics**

We have not found any literature mentions for this resource.