

Resource Summary Report

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NBLAST

RRID:SCR_015884

Type: Tool

Proper Citation

NBLAST (RRID:SCR_015884)

Resource Information

URL: <http://flybrain.mrc-lmb.cam.ac.uk/si/nblast/www/>

Proper Citation: NBLAST (RRID:SCR_015884)

Description: Algorithm for measuring pairwise neuronal similarity. NBLAST considers both position and local geometry and works by decomposing a query and target neuron into short segments; matched segment pairs are scored using a log-likelihood ratio scoring matrix empirically defined by the statistics of real matches and non-matches.

Resource Type: algorithm resource, software resource, web application

Defining Citation: [PMID:27373836](#)

Keywords: drosophila, vector, algorithm, transgene, flycircuit, neuronal similarity, cluster

Funding: Medical Research Council U105188491

Availability: Public, Free, Available for download, Demo available

Resource Name: NBLAST

Resource ID: SCR_015884

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260912T195832+0000

Ratings and Alerts

No rating or validation information has been found for NBLAST.

No alerts have been found for NBLAST.

Data and Source Information

Usage and Citation Metrics

We found 98 mentions in open access literature.

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

Preena P, et al. (2026) A preliminary survey of feline filarial parasites in Kerala State, India. *Parasitology research*, 125(1).

Nern A, et al. (2025) Connectome-driven neural inventory of a complete visual system. *Nature*, 641(8065), 1225.

Bergamaschi V, et al. (2025) Pomegranate Woody Mycobiota Associated with Wood Decay. *Journal of fungi (Basel, Switzerland)*, 11(4).

Öztürk Köse S, et al. (2025) Biodegradation of aflatoxin in dried figs. *World journal of microbiology & biotechnology*, 41(7), 257.

Dhawan S, et al. (2025) Neural connectivity of a computational map for fly flight control. *bioRxiv : the preprint server for biology*.

Perumalsamy N, et al. (2025) 12S rRNA based phylogeny and genetic diversity of *Haemaphysalis spinigera*, the primary vector for Kyasanur forest disease in India. *Scientific reports*, 15(1), 39688.

Sarafraz F, et al. (2025) Microbiome Therapeutic *Lactiplantibacillus plantarum* PMC105 for Systemic Carbapenem-Resistant Enterobacteriaceae Infections: Oral and Inhalation Efficacy In Vivo. *Journal of microbiology and biotechnology*, 35, e2508009.

Mendoza-Alatorre M, et al. (2024) Enhancing drought stress tolerance and growth promotion in chiltepin pepper (*Capsicum annuum* var. *glabriusculum*) through native *Bacillus* spp. *Scientific reports*, 14(1), 15383.

Aldaby ESE, et al. (2024) Photosynthesizing carbonate/nitrate into *Chlorococcum humicola* biomass for biodiesel and *Bacillus coagulans*-based biohydrogen production. *Microbial cell factories*, 23(1), 247.

Jambhulkar PP, et al. (2024) Assessment of Genetic Diversity and the Population Structure of Species from the *Fusarium fujikuroi* Species Complex Causing Fusarium Stalk Rot of Maize. *Journal of fungi (Basel, Switzerland)*, 10(8).

Tere-Peña CP, et al. (2024) Digital PCR Validation for Characterization of Quantitative Reference Material of *Escherichia coli* O157:H7 Genomic DNA. *Methods and protocols*, 7(6).

Ganguly I, et al. (2024) Diversity of visual inputs to Kenyon cells of the *Drosophila* mushroom body. *Nature communications*, 15(1), 5698.

Das K, et al. (2024) Concordance of multigene genealogy along with morphological evidence unveils five novel species and two new records of boletoid mushrooms (fungi) from India. *Scientific reports*, 14(1), 9298.

Rodriguez-Andres J, et al. (2024) Mosquito transgenerational antiviral immunity is mediated by vertical transfer of virus DNA sequences and RNAi. *iScience*, 27(1), 108598.

Shiu PK, et al. (2024) A *Drosophila* computational brain model reveals sensorimotor processing. *Nature*, 634(8032), 210.

Singh P, et al. (2023) Combinatorial encoding of odors in the mosquito antennal lobe. *Nature communications*, 14(1), 3539.

Shiu PK, et al. (2023) A leaky integrate-and-fire computational model based on the connectome of the entire adult *Drosophila* brain reveals insights into sensorimotor processing. *bioRxiv* : the preprint server for biology.

Ismail MM, et al. (2023) Morpho-anatomical, and chemical characterization of some calcareous Mediterranean red algae species. *Botanical studies*, 64(1), 10.

Umbach AK, et al. (2023) Evaluating cpn60 for high-resolution profiling of the mammalian skin microbiome and detection of phyllosymbiosis. *ISME communications*, 3(1), 69.

Ullah N, et al. (2023) Development and Evaluation of Essential Oil-Based Nanoemulgel Formulation for the Treatment of Oral Bacterial Infections. *Gels* (Basel, Switzerland), 9(3).