

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

E-mem

RRID:SCR_016081

Type: Tool

Proper Citation

E-mem (RRID:SCR_016081)

Resource Information

URL: <http://www.csd.uwo.ca/~ilie/E-MEM/>

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Description: Software for an efficient maximal exact match (MEM) computation program that does not use full text indexes, uses less space and is amenable to parallelization. It can be used as a stand alone application or a drop-in replacement for MUMmer3 system for rapidly aligning entire genomes.

Abbreviations: E-mem

Synonyms: E-mem: Efficient-maximal exact match

Resource Type: image analysis software, software resource, software application, standalone software, alignment software, data processing software

Defining Citation: [PMID:25399029](#)

Keywords: efficient, maximal, exact, match, compute, program, algorithm, application, sequence, alignment

Funding: Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant R3143A01 (L.I.).

Availability: Free, Available for download

Resource Name: E-mem

Resource ID: SCR_016081

Alternate IDs: OMICS_08451

Alternate URLs: <https://github.com/lucian-ilie/E-MEM>, <https://sources.debian.org/src/e-mem/>

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260808T190048+0000

Ratings and Alerts

No rating or validation information has been found for E-mem.

No alerts have been found for E-mem.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Abdalla MS, et al. (2025) Broad-spectrum bioactivities and therapeutic potential of essential oils of certain aromatic and medicinal plants and their combination. Scientific reports, 15(1), 32463.

Sonoi R, et al. (2024) A novel strategy to facilitate uniform epithelial cell maturation using liquid-liquid interfaces. Scientific reports, 14(1), 12314.

Akita T, et al. (2023) Intracellular Drug Delivery Process of Am80-Encapsulated Lipid Nanoparticles Aiming for Alveolar Regeneration. Pharmaceuticals (Basel, Switzerland), 16(6).

Biasini L, et al. (2023) Transcriptome Profiling of Oncorhynchus mykiss Infected with Low or Highly Pathogenic Viral Hemorrhagic Septicemia Virus (VHSV). Microorganisms, 12(1).

Rovida F, et al. (2021) SARS-CoV-2 vaccine breakthrough infections with the alpha variant are asymptomatic or mildly symptomatic among health care workers. Nature communications, 12(1), 6032.

Kang N, et al. (2021) ARHGAP4-SEPT2-SEPT9 complex enables both up- and down-modulation of integrin-mediated focal adhesions, cell migration, and invasion. Molecular biology of the cell, 32(21), ar28.

Dimida S, et al. (2020) Assessment of Cytocompatibility and Anti-Inflammatory (Inter)Actions of Genipin-Crosslinked Chitosan Powders. Biology, 9(7).

Katsuda T, et al. (2020) Transcriptomic Dissection of Hepatocyte Heterogeneity: Linking Ploidy, Zonation, and Stem/Progenitor Cell Characteristics. Cellular and molecular gastroenterology and hepatology, 9(1), 161.

Tsuji S, et al. (2019) Temozolomide has anti-tumor effects through the phosphorylation of cPLA2 on glioblastoma cells. *Brain research*, 1723, 146396.

De Conto F, et al. (2019) Epidemiology of human respiratory viruses in children with acute respiratory tract infection in a 3-year hospital-based survey in Northern Italy. *Diagnostic microbiology and infectious disease*, 94(3), 260.

Grando TH, et al. (2017) Avian antibodies (IgY) against *Trypanosoma cruzi*: Purification and characterization studies. *Journal of immunological methods*, 449, 56.

Mencarelli A, et al. (2012) VSL#3 resets insulin signaling and protects against NASH and atherosclerosis in a model of genetic dyslipidemia and intestinal inflammation. *PloS one*, 7(9), e45425.