

Resource Summary Report

Generated by [RRID](#) on Aug 13, 2026

ARTS biomarker

RRID:SCR_019288

Type: Tool

Proper Citation

ARTS biomarker (RRID:SCR_019288)

Resource Information

URL: <http://www.nitrc.org/projects/arts/>

Proper Citation: ARTS biomarker (RRID:SCR_019288)

Description: Software tool as automated biomarker that outputs score linked to likelihood person suffering from arteriolosclerosis based on brain MRI data and basic demographic information. MRI data processing pipeline and classifier are packaged into software container. Users do not need to perform any image processing, and are only required to install Singularity to run ARTS.

Synonyms: ARTS

Resource Type: data processing software, software resource, software application

Keywords: Automated biomarker, score output, arteriolosclerosis, brain MRI data, demographic information,

Availability: Restricted

Resource Name: ARTS biomarker

Resource ID: SCR_019288

Record Creation Time: 20220129T080344+0000

Record Last Update: 20260813T055225+0000

Ratings and Alerts

No rating or validation information has been found for ARTS biomarker.

No alerts have been found for ARTS biomarker.

Data and Source Information

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Nguyen TT, et al. (2025) In silico and in vitro analyses reveal the potential use of *Streptomyces parvulus* VNUA74 as bioagent for sustainable banana production. *Scientific reports*, 15(1), 7049.

El-Hosseney MF, et al. (2025) Complete genome sequencing and probiotic characterization of promising lactic acid bacterial strains isolated from dairy products in Egyptian markets. *BMC microbiology*, 25(1), 67.

Fleischman DA, et al. (2025) ARTS is associated with vascular risk factors, MCI, dementia, and stroke. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(7), e70430.

El-Hosseney MF, et al. (2025) Whole genome sequencing of promising *Lactobacillus delbrueckii* subsp. *bulgaricus* strains isolated from Egyptian dairy products for probiotic characteristics. *Scientific reports*, 15(1), 6901.

Fleischman DA, et al. (2024) Cerebral arteriolosclerosis, lacunar infarcts, and cognition in older Black adults. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(8), 5375.

Ngatsi PZ, et al. (2024) Response of cassava (*Manihot esculenta* Crantz) genotypes to natural infestation by scale insect pest *Stictococcus vayssierei* Richard (Hemiptera: Stictococcidae). *Current research in insect science*, 5, 100071.

Geller-McGrath D, et al. (2023) Diverse secondary metabolites are expressed in particle-associated and free-living microorganisms of the permanently anoxic Cariaco Basin. *Nature communications*, 14(1), 656.

Emelyanov AV, et al. (2023) APOLLO, a testis-specific *Drosophila* ortholog of importin-4, mediates the loading of protamine-like protein Mst77F into sperm chromatin. *The Journal of biological chemistry*, 299(10), 105212.

Feng XL, et al. (2023) Genomic and Metabolite Profiling Reveal a Novel *Streptomyces* Strain, QHH-9511, from the Qinghai-Tibet Plateau. *Microbiology spectrum*, 11(1), e0276422.

Lara AC, et al. (2021) The Genome Analysis of the Human Lung-Associated *Streptomyces* sp. TR1341 Revealed the Presence of Beneficial Genes for Opportunistic Colonization of Human Tissues. *Microorganisms*, 9(8).

Wongmassang W, et al. (2021) Weakly correlated activity of pallidal neurons in behaving monkeys. *The European journal of neuroscience*, 53(7), 2178.

Isaac A, et al. (2021) Tight Adherence (Tad) Pilus Genes Indicate Putative Niche Differentiation in Phytoplankton Bloom Associated Rhodobacterales. *Frontiers in microbiology*, 12, 718297.

Caicedo-Montoya C, et al. (2021) Pan-Genome of the Genus *Streptomyces* and Prioritization of Biosynthetic Gene Clusters With Potential to Produce Antibiotic Compounds. *Frontiers in microbiology*, 12, 677558.

Álvarez-García C, et al. (2021) Development of the Aerial Remote Triage System using drones in mass casualty scenarios: A survey of international experts. *PloS one*, 16(5), e0242947.

Makkinejad N, et al. (2021) ARTS: A novel In-vivo classifier of arteriolosclerosis for the older adult brain. *NeuroImage. Clinical*, 31, 102768.

Laleve A, et al. (2020) Artemisinin and its derivatives target mitochondrial c-type cytochromes in yeast and human cells. *Biochimica et biophysica acta. Molecular cell research*, 1867(5), 118661.

Chaudhry V, et al. (2020) Evolutionary insights into adaptation of *Staphylococcus haemolyticus* to human and non-human niches. *Genomics*, 112(2), 2052.

Ziko L, et al. (2019) Antibacterial and anticancer activities of orphan biosynthetic gene clusters from Atlantis II Red Sea brine pool. *Microbial cell factories*, 18(1), 56.

Ziko L, et al. (2019) Insights into Red Sea Brine Pool Specialized Metabolism Gene Clusters Encoding Potential Metabolites for Biotechnological Applications and Extremophile Survival. *Marine drugs*, 17(5).

Nguyen MN, et al. (2017) Topology independent comparison of RNA 3D structures using the CLICK algorithm. *Nucleic acids research*, 45(1), e5.