Resource Summary Report

Generated by T1D on Sep 20, 2026

Classifier for Metagenomic Sequences

RRID:SCR_004929
Type: Tool

Proper Citation

Classifier for Metagenomic Sequences (RRID:SCR_004929)

Resource Information

URL: http://clams.jgi-psf.org/

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Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on May 2nd, 2023. Sequence composition based classifier for metagenomic sequences. It works by capturing signatures of each sequence based on the sequence composition. Each sequence is modeled as a walk in a de Bruijn graph with underlying Markov chain properties. ClaMS captures stationary parameters of the underlying Markov chain as well as structural parameters of the underlying de Bruijn graph to form this signature. In practice, for each sequence to binned, such a signature is computed and matched to similar signatures computed for the training sets. The best match that also qualifies the normalized distance cut-off wins. In the case that the best match does not qualify this cut-off, the sequence remains un-binned.

Abbreviations: ClaMS

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

Keywords: metagenome, classification, sequence

Funding: DOE contract DE-AC02-05CH11231

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Classifier for Metagenomic Sequences

Resource ID: SCR_004929

Alternate IDs: SCR_005519, nlx_144629, OMICS_01452

Record Creation Time: 20220129T080227+0000

Record Last Update: 20260919T195044+0000

Ratings and Alerts

No rating or validation information has been found for Classifier for Metagenomic Sequences.

No alerts have been found for Classifier for Metagenomic Sequences.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 150 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Charlesworth E, et al. (2023) Stratospheric water vapor affecting atmospheric circulation. Nature communications, 14(1), 3925.

Killam D, et al. (2023) Giant clams as open-source, scalable reef environmental biomonitors. PloS one, 18(1), e0278752.

Fadnavis S, et al. (2023) Comparison of ozonesonde measurements in the upper troposphere and lower Stratosphere in Northern India with reanalysis and chemistry-climate-model data. Scientific reports, 13(1), 7133.

Alsharif H, et al. (2023) Loss of Brain Angiogenesis Inhibitor-3 (BAI3) G-Protein Coupled Receptor in Mice Regulates Adaptive Thermogenesis by Enhancing Energy Expenditure. Metabolites, 13(6).

Boland BB, et al. (2022) Peptide-YY3-36/glucagon-like peptide-1 combination treatment of obese diabetic mice improves insulin sensitivity associated with recovered pancreatic ?-cell function and synergistic activation of discrete hypothalamic and brainstem neuronal circuitries. Molecular metabolism, 55, 101392.

Esposito G, et al. (2022) Ecotoxicity of Copper(I) Chloride in Grooved Carpet Shell (Ruditapes decussatus). Antioxidants (Basel, Switzerland), 11(11).

Mikhailov KV, et al. (2022) Genomic analysis reveals cryptic diversity in aphelids and sheds light on the emergence of Fungi. Current biology : CB, 32(21), 4607.

Jeoh T, et al. (2021) How alginate properties influence in situ internal gelation in crosslinked alginate microcapsules (CLAMs) formed by spray drying. PloS one, 16(2), e0247171.

Ahmed BA, et al. (2021) Lower brown adipose tissue activity is associated with non-alcoholic fatty liver disease but not changes in the gut microbiota. Cell reports. Medicine, 2(9), 100397.

Abu El Haija M, et al. (2021) Toll-like receptor 4 and myeloid differentiation factor 88 are required for gastric bypass-induced metabolic effects. Surgery for obesity and related diseases : official journal of the American Society for Bariatric Surgery, 17(12), 1996.

Ye Y, et al. (2020) Endocannabinoid Receptor-1 and Sympathetic Nervous System Mediate the Beneficial Metabolic Effects of Gastric Bypass. Cell reports, 33(4), 108270.

Gnanapradeepan K, et al. (2020) Increased mTOR activity and metabolic efficiency in mouse and human cells containing the African-centric tumor-predisposing p53 variant Pro47Ser. eLife, 9.

Zhang S, et al. (2019) MITF Regulates Downstream Genes in Response to Vibrio parahaemolyticus Infection in the Clam Meretrix Petechialis. Frontiers in immunology, 10, 1547.

Assali DR, et al. (2018) Food anticipatory activity on a calorie-restricted diet is independent of Sirt1. PloS one, 13(6), e0199586.

Lakin R, et al. (2018) Changes in Heart Rate and Its Regulation by the Autonomic Nervous System Do Not Differ Between Forced and Voluntary Exercise in Mice. Frontiers in physiology, 9, 841.

Yao L, et al. (2018) A selective gut bacterial bile salt hydrolase alters host metabolism. eLife, 7.

Jouroukhin Y, et al. (2018) DISC1 regulates lactate metabolism in astrocytes: implications for psychiatric disorders. Translational psychiatry, 8(1), 76.

Bae CR, et al. (2018) Adipocyte-specific expression of C-type natriuretic peptide suppresses lipid metabolism and adipocyte hypertrophy in adipose tissues in mice fed high-fat diet. Scientific reports, 8(1), 2093.

Martins VF, et al. (2018) Calorie Restriction-Induced Increase in Skeletal Muscle Insulin Sensitivity Is Not Prevented by Overexpression of the p55? Subunit of Phosphoinositide 3-Kinase. Frontiers in physiology, 9, 789.

Andrich DE, et al. (2018) Altered Feeding Behaviors and Adiposity Precede Observable Weight Gain in Young Rats Submitted to a Short-Term High-Fat Diet. Journal of nutrition and metabolism, 2018, 1498150.