## **Resource Summary Report**

Generated by FDI Lab - SciCrunch.org on May 23, 2025

# **RAlphy**

RRID:SCR\_004720

Type: Tool

### **Proper Citation**

RAIphy (RRID:SCR\_004720)

#### **Resource Information**

URL: http://bioinfo.unl.edu/raiphy.php

Proper Citation: RAlphy (RRID:SCR\_004720)

**Description:** A semi-supervised metagenomic fragment classification software program that utilizes the genome signatures to characterize the DNA sequences and taxonomic classification is based on an information theoretic measure referred as Relative Abundance Index (RAI). A DNA sequence of unknown source is classified and taxonomically labeled based on the phylogenetic profiles of the previously sequenced genomes. The profiles are iteratively updated using the unknown DNA sequences and the classification results. After a few cycles, the metagenome is classified into operational taxonomic units.

**Abbreviations:** RAlphy

**Resource Type:** software resource

**Defining Citation: PMID:21281493** 

Keywords: classification, metagenome, phylogenetic profile, genome, taxonomic

classification, dna sequence, relative abundance index

Funding:

Resource Name: RAlphy

Resource ID: SCR\_004720

Alternate IDs: OMICS\_01464

**Record Creation Time: 20220129T080226+0000** 

Record Last Update: 20250519T203333+0000

## Ratings and Alerts

No rating or validation information has been found for RAlphy.

No alerts have been found for RAIphy.

#### **Data and Source Information**

Source: SciCrunch Registry

### **Usage and Citation Metrics**

We found 3 mentions in open access literature.

**Listed below are recent publications.** The full list is available at FDI Lab - SciCrunch.org.

Benavides A, et al. (2018) CLAME: a new alignment-based binning algorithm allows the genomic description of a novel Xanthomonadaceae from the Colombian Andes. BMC genomics, 19(Suppl 8), 858.

Alvarenga DO, et al. (2017) A Metagenomic Approach to Cyanobacterial Genomics. Frontiers in microbiology, 8, 809.

Norling M, et al. (2016) MetLab: An In Silico Experimental Design, Simulation and Analysis Tool for Viral Metagenomics Studies. PloS one, 11(8), e0160334.