

Resource Summary Report

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CROP

RRID:SCR_006916

Type: Tool

Proper Citation

CROP (RRID:SCR_006916)

Resource Information

URL: <http://code.google.com/p/crop-tingchenlab/>

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Description: A clustering tool designed mainly for Metagenomics studies, which clusters 16S rRNA sequences into Operational Taxonomic Units (OTU). By using a Gaussian Mixture model, CROP can automatically determine the best clustering result for 16S rRNA sequences at different phylogenetic levels without setting a hard cutoff threshold as hierarchical clustering does. Yet, at the same time, it is able to manage large datasets and to overcome sequencing errors.

Abbreviations: CROP

Synonyms: CROP: Clustering 16S rRNA For OTU Prediction

Resource Type: software resource

Defining Citation: [PMID:21233169](#)

Keywords: cluster, 16s rna, otu, gaussian mixture, bayesian, mcmc, metagenomics

Resource Name: CROP

Resource ID: SCR_006916

Alternate IDs: OMICS_01442

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T132603+0000

Ratings and Alerts

No rating or validation information has been found for CROP.

No alerts have been found for CROP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 209 mentions in open access literature.

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

Bittlingmaier M, et al. (2026) Plant and soil biodiversity sustain root mycorrhizal fungal richness under drought stress. The ISME journal, 20(1).

Ge Y, et al. (2026) Resourceful utilization of crop residue by smallholder farmers in major grain-producing areas: pathways and countermeasures. Scientific reports, 16(1), 5065.

Gao Y, et al. (2026) Methodologies for Sample Multiplexing and Computational Deconvolution in Single-Cell Sequencing. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(3), e13396.

Hui Y, et al. (2026) Skeleton motion topology-masked prediction and contrastive learning for self-supervised human action recognition. Scientific reports, 16(1).

Conrad Z, et al. (2025) Exploring the crop suitability of first-contact tribal lands in the eastern United States: impacts of past and near-future climate conditions. Scientific reports, 15(1), 27854.

Jafarbeglou F, et al. (2025) A deep learning model for diagnosis of inherited retinal diseases. Scientific reports, 15(1), 22523.

Bongiovanni S, et al. (2025) Lithospheric features revealed by a new Moho map in the central-western Sicily Channel. Scientific reports, 15(1), 17177.

Singh V, et al. (2025) Fungal endophytes influence soil organic carbon and nitrogen fractions promoting carbon sequestration and improving grain yield in soybean. Scientific reports, 15(1), 11402.

Ahmad M, et al. (2025) Enhancing Heart Disease Diagnosis Using ECG Signal Reconstruction and Deep Transfer Learning Classification with Optional SVM Integration. Diagnostics (Basel, Switzerland), 15(12).

Li D, et al. (2025) How Long Until Agricultural Carbon Peaks in the Three Gorges Reservoir? Insights from 18 Districts and Counties. Microorganisms, 13(6).

Basellini MJ, et al. (2025) Oleuropein Aglycone, an Olive Polyphenol, Influences Alpha-Synuclein Aggregation and Exerts Neuroprotective Effects in Different Parkinson's

Disease Models. Molecular neurobiology, 62(12), 15741.

Krishnamoorthi S, et al. (2025) Hyperspectral reflectance imaging and spectral component analysis techniques to reveal distinct color patterns on plant leaves. STAR protocols, 6(2), 103854.

Hakeem SA, et al. (2025) Critical period of weed-crop competition in irrigated chickpea as a tool for judicious weed control. Scientific reports, 15(1), 32116.

Grewal HS, et al. (2025) Using RZWQM2-P to capture tile drainage phosphorus dynamics in Ohio. Journal of environmental quality, 54(1), 217.

Mubarak T, et al. (2025) Yield and water productivity of rice as influenced by crop establishment and irrigation methods under temperate environment. Scientific reports, 15(1), 29494.

Pramanik A, et al. (2025) Protocol for automated tracking and quantification of adult zebrafish anxiety behavior using ZebraTrack. STAR protocols, 6(1), 103631.

Dhungana I, et al. (2025) Legacy of Repeated Cultivation Drives Cyclical Microbial Community Development in a Tropical Oxisol Soil. Microbial ecology, 88(1), 30.

Jiang J, et al. (2025) Trade-offs between agricultural production and ecosystem services under different land management scenarios in the Loess Plateau of China. Scientific reports, 15(1), 21385.

Jin X, et al. (2025) Ammonia emissions from agricultural products at high resolution across Europe. Scientific data, 12(1), 1493.

Messina C, et al. (2025) Toward a general framework for AI-enabled prediction in crop improvement. TAG. Theoretical and applied genetics. Theoretische und angewandte Genetik, 138(7), 151.