

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: 20260725T190631+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 204 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

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).

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).

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

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.

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.

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

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.

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

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.

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

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.

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.

Mustafa G, et al. (2025) ECP-IEM: Enhancing seasonal crop productivity with deep integrated models. *PloS one*, 20(2), e0316682.

Dong L, et al. (2025) Optimization of row and hill spacing patterns improved rice population structure and increased rice yield. *Frontiers in plant science*, 16, 1570845.

Costa FM, et al. (2024) Archaeological findings show the extent of primitive characteristics of maize in South America. *Science advances*, 10(36), eadn1466.

Tefera GG, et al. (2024) Human- common hippo (*Hippopotamus amphibius*)-conflict in the Dhidhessa Wildlife Sanctuary and its surrounding, Southwestern Ethiopia. *PloS one*, 19(5), e0303647.

Siegfried LG, et al. (2024) An Optimized and Advanced Algorithm for the Quantification of Immunohistochemical Biomarkers in Keratinocytes. *JID innovations : skin science from molecules to population health*, 4(3), 100270.