

# Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 28, 2026

## CROP

RRID:SCR\_006916

Type: Tool

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### Proper Citation

CROP (RRID:SCR\_006916)

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### Resource Information

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

**Proper Citation:** CROP (RRID:SCR\_006916)

**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

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### Ratings and Alerts

No rating or validation information has been found for CROP.

No alerts have been found for CROP.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 204 mentions in open access literature.

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

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.

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).

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.

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.

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.

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.

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.