

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 rRNA, OTU, gaussian mixture, bayesian, mcmc, metagenomics

Funding:

Availability: GNU General Public License, v3, Acknowledgement requested

Resource Name: CROP

Resource ID: SCR_006916

Alternate IDs: OMICS_01442

Record Creation Time: 20220129T080238+0000

Record Last Update: 20250420T014349+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 187 mentions in open access literature.

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

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

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.

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

Gavhane AD, et al. (2024) Cultivation viability of Allium tuberosum L. in the Western Ghats: insights into crop dynamics, yield and quality. Frontiers in plant science, 15, 1480510.

Wang S, et al. (2024) Distribution and soil threshold of selenium in the cropland of southwest mountainous areas in China. Scientific reports, 14(1), 16923.

Ling Y, et al. (2024) Optimum seeding density and seedling age for the outstanding yield performance of Japonica rice using crop straw boards for seedling cultivation. Frontiers in plant science, 15, 1431687.

Jo SH, et al. (2024) Effects of mineral fertilization (NPK) on combined high temperature and ozone damage in rice. *BMC plant biology*, 24(1), 974.

Mazzetti S, et al. (2024) Linking acetylated α -Tubulin redistribution to α -Synuclein pathology in brain of Parkinson's disease patients. *NPJ Parkinson's disease*, 10(1), 2.

Delgado-Carrillo O, et al. (2024) Pollination services to crops of watermelon (*Citrullus lanatus*) and green tomato (*Physalis ixocarpa*) in the coastal region of Jalisco, Mexico. *PloS one*, 19(7), e0301402.

Makhlouf M, et al. (2024) Short-term consumption of highly processed diets varying in macronutrient content impair the sense of smell and brain metabolism in mice. *Molecular metabolism*, 79, 101837.

Hansen AH, et al. (2024) Time-lapse imaging of cortical projection neuron migration in mice using mosaic analysis with double markers. *STAR protocols*, 5(1), 102795.

Feigs JT, et al. (2024) Bumblebees mediate landscape effects on a forest herb's population genetic structure in European agricultural landscapes. *Ecology and evolution*, 14(7), e70078.

Goyal SS, et al. (2024) Assessing temporal dynamics of nitrogen surplus in Indian agriculture: district scale data from 1966 to 2017. *Scientific data*, 11(1), 1191.

Devi M, et al. (2024) Fitness costs associated with laboratory induced resistance to chlorpyrifos in *Spodoptera litura*. *Scientific reports*, 14(1), 30874.

Fowler P, et al. (2024) Assessment of the three-test genetic toxicology battery for groundwater metabolites. *Mutagenesis*, 39(2), 146.

Nguyen TH, et al. (2024) NPKGRIDS: a global georeferenced dataset of N, P₂O₅, and K₂O fertilizer application rates for 173 crops. *Scientific data*, 11(1), 1179.

Cordeiro GD, et al. (2023) Global warming impairs the olfactory floral signaling in strawberry. *BMC plant biology*, 23(1), 549.

Rutz T, et al. (2023) Use of Insect Exclusion Row Cover and Reflective Silver Plastic Mulching to Manage Whitefly in Zucchini Production. *Insects*, 14(11).

Janakiraman S, et al. (2023) Semi-automated colony-forming unit counting for biosafety level 3 laboratories. *STAR protocols*, 4(3), 102442.