Resource Summary Report

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Modular Automated Platform for Large Scale Experiments project

RRID:SCR_021557
Type: Tool

Proper Citation

Modular Automated Platform for Large Scale Experiments project (RRID:SCR_021557)

Resource Information

URL: https://edspace.american.edu/openbehavior/project/maple/

Proper Citation: Modular Automated Platform for Large Scale Experiments project (RRID:SCR_021557)

Description: Portal related to measurement of fly social networks and behavior. Provides Drosophila handing robot that boasts modular design, allowing platform to both automate diverse phenotyping assays and aid with lab chores (e.g., collecting virgin female flies). MAPLE permits small part manipulator, USB digital camera, and fly manipulator to work simultaneously over platform of flies.

Abbreviations: MAPLE

Synonyms: Modular Automated Platform for Large -Scale Experiments

Resource Type: instrument resource, project portal, portal, data or information resource

Defining Citation: DOI:10.1101/239459

Keywords: Instrument, Drosophila handing robot, automate diverse phenotyping assays, collecting virgin female flies, USB digital camera, fly manipulator, flies modular automated platform, large scale experiments, OpenBehavior

Availability: Free, Freely available

Resource Name: Modular Automated Platform for Large Scale Experiments project

Resource ID: SCR_021557

Record Creation Time: 20220129T080356+0000

Record Last Update: 20260729T044525+0000

Ratings and Alerts

No rating or validation information has been found for Modular Automated Platform for Large Scale Experiments project.

No alerts have been found for Modular Automated Platform for Large Scale Experiments project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 41 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Sparrow Muñoz I, et al. (2025) A Golden Gate compatible system for continuous directed evolution in E. coli. Synthetic biology (Oxford, England), 10(1), ysaf014.

Dang HM, et al. (2025) Multi-objective optimizing spring placement and stiffness in slider-crank mechanisms for enhanced dynamic parameters. PloS one, 20(9), e0331341.

Pekar JE, et al. (2025) Transmission dynamics of the 2022 mpox epidemic in New York City. Nature medicine, 31(5), 1464.

Dezordi FZ, et al. (2025) Higher frequency of interstate over international transmission chains of SARS-CoV-2 virus at the Rio Grande do Sul - Brazil state borders. Virus research, 351, 199500.

Xiong C, et al. (2025) A comprehensive comparison on clustering methods for multi-slice spatially resolved transcriptomics data analysis. Briefings in bioinformatics, 26(5).

López Pérez M, et al. (2025) Infants' Knowledge of Individual Words: Investigating Links Between Parent Report and Looking Time. Infancy : the official journal of the International Society on Infant Studies, 30(1), e12641.

Algolam MS, et al. (2025) Bifurcation analysis, modulation instability and dynamical analysis of soliton solutions for generalized (3 + 1)-dimensional nonlinear wave equation with m-fractional operator. Scientific reports, 15(1), 12929.

Venkataramanan A, et al. (2024) "UDE DIATOMS in the Wild 2024": a new image dataset of freshwater diatoms for training deep learning models. GigaScience, 13.

Ma B, et al. (2024) Bases-dependent Rapid Phylogenetic Clustering (Bd-RPC) enables precise and efficient phylogenetic estimation in viruses. Virus evolution, 10(1), veae005.

Ye Y, et al. (2024) Robust expansion of phylogeny for fast-growing genome sequence data. PLoS computational biology, 20(2), e1011871.

Khurana MP, et al. (2024) High-resolution epidemiological landscape from ~290,000 SARS-CoV-2 genomes from Denmark. Nature communications, 15(1), 7123.

Constantinescu S, et al. (2024) MAPLE-prepared graphene oxide-based coatings for improved orthopedic screws used in knee interventions. Romanian journal of morphology and embryology = Revue roumaine de morphologie et embryologie, 65(3), 433.

Ramezani G, et al. (2024) Advancements in Hybrid Cellulose-Based Films: Innovations and Applications in 2D Nano-Delivery Systems. Journal of functional biomaterials, 15(4).

Yasmin H, et al. (2024) Noise effect on soliton phenomena in fractional stochastic Kraenkel-Manna-Merle system arising in ferromagnetic materials. Scientific reports, 14(1), 1810.

Azab SM, et al. (2024) Exposure to air pollutants and subclinical carotid atherosclerosis measured by magnetic resonance imaging: A cross-sectional analysis. PloS one, 19(10), e0309912.

Heydari A, et al. (2024) Fast Whole-Brain MR Multi-Parametric Mapping with Scan-Specific Self-Supervised Networks. ArXiv.

de Bernardi Schneider A, et al. (2024) SARS-CoV-2 lineage assignments using phylogenetic placement/UShER are superior to pangoLEARN machine-learning method. Virus evolution, 10(1), vead085.

Rusen E, et al. (2024) Surface pre-treatment of aluminum alloy for mechanical improvement of adhesive bonding by maple-assisted pulsed laser evaporation technique. RSC advances, 14(31), 22627.

Kim YY, et al. (2024) Development and Quality Enhancement of Fried Fish Cake Prototype with Transglutaminase, Trehalose, and Herbal Oil for Room Temperature Distribution. Gels (Basel, Switzerland), 10(11).

Dyrdak R, et al. (2024) Early unrecognised SARS-CoV-2 introductions shaped the first pandemic wave, Sweden, 2020. Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin, 29(41).