

Resource Summary Report

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ECHO

RRID:SCR_011851

Type: Tool

Proper Citation

ECHO (RRID:SCR_011851)

Resource Information

URL: <http://uc-echo.sourceforge.net/>

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Description: Error correction algorithm designed for short-reads from next-generation sequencing platforms such as Illumina's Genome Analyzer II.

Abbreviations: ECHO

Synonyms: ECHO: A reference-free short-read error correction algorithm

Resource Type: data analysis software, data processing software, software application, sequence analysis software, software resource, algorithm resource

Defining Citation: [PMID:21482625](#), [DOI:10.1101/gr.111351.110](#)

Keywords: error correction, rnaseq, rna sequence, short-read, next-generation sequencing, ngs, illumina, bio.tools

Availability: Free, Available for download

Resource Name: ECHO

Resource ID: SCR_011851

Alternate IDs: biotools:echo, OMICS_01102

Alternate URLs: <https://bio.tools/echo>, <https://sources.debian.org/src/uc-echo/>

Record Creation Time: 20220129T080307+0000

Record Last Update: 20260810T040537+0000

Ratings and Alerts

No rating or validation information has been found for ECHO.

No alerts have been found for ECHO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 312 mentions in open access literature.

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

Liu T, et al. (2025) Maternal vaginal and fecal microbiota in later pregnancy contribute to child fecal microbiota development in the ECHO cohort. *iScience*, 28(4), 112211.

Abou-Kassem D, et al. (2025) Opioid Therapy in Chronic Pain: Assessment of Clinical Outcomes and Relationships With Endocrine Biomarkers. *European journal of pain* (London, England), 29(6), e70027.

Li Y, et al. (2025) Newborn blood DNA methylation and childhood asthma: findings from the ECHO program. *International journal of epidemiology*, 54(3).

Chuah J, et al. (2025) Dual-approach co-expression analysis framework (D-CAF) enables identification of novel circadian co-regulation from multi-omic timeseries data. *BMC bioinformatics*, 26(1), 72.

Zhao T, et al. (2025) A Versatile High-Throughput Single-Cell Screening Platform for Profiling Antigen-Specific Long-Lived B Cells in Blood and Bone Marrow. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(21), e2414945.

Lin YC, et al. (2025) A Streamlined Approach to Anticounterfeiting Technologies: Patterned AAO Membranes Based on Photonic Crystal Effects with Tunable Color Shifts and pH Responsiveness. *Small* (Weinheim an der Bergstrasse, Germany), 21(8), e2409919.

McBride J, et al. (2025) A Quantitative Approach to Data Collection and Analysis of ECHO Programs Focused on Cancer Care. *Journal of medical education and curricular development*, 12, 23821205251358088.

Chen YF, et al. (2025) Hibiscus Mutabilis-Inspired Upcycled TPEE Films with Orthogonal Wavelength-Controlled Spiropyrans for Dynamic Anticounterfeiting and Photoswitchable Conductivity. *Small* (Weinheim an der Bergstrasse, Germany), 21(36), e03829.

Evertsen FW, et al. (2025) Quantifying the Impact of Spatial Disorientation on Pilot Mental Workload and Attentional Focus. *Human factors*, 67(10), 997.

Akbaryan A, et al. (2025) COVID-19 Pandemic Exposure and Toddler Behavioral Health in the ECHO Program. *JAMA network open*, 8(9), e2530346.

- Lu JY, et al. (2025) Inhibitory effects of Raphanus sativus root extracts on MUC5AC gene expression in human airway epithelial cells. NPJ science of food, 9(1), 181.
- Rollins K, et al. (2025) Target cell adhesion limits macrophage phagocytosis and promotes trogocytosis. bioRxiv : the preprint server for biology.
- Busireddy MR, et al. (2025) Achieving Low Dissipation Factors and Low Dielectric Constants via Thermally Stable Naphthalene-Based Poly(ester-imide)s with Fluorine Groups. ACS applied materials & interfaces, 17(12), 18931.
- Adalarasan S, et al. (2025) Determinants Influencing the Electrocardiographic Diagnosis of Left Ventricular Hypertrophy Among Hypertensive Patients. Cureus, 17(2), e79217.
- Wei HX, et al. (2025) Fabrication of pH- and Ultrasound-Responsive Polymeric Micelles: The Effect of Amphiphilic Block Copolymers with Different Hydrophilic/Hydrophobic Block Ratios for Self-Assembly and Controlled Drug Release. Biomacromolecules, 26(4), 2116.
- Dizon GVC, et al. (2025) Bioinert Fibrous Polypropylene Membranes via In Situ Polymerization of Zwitterionic Poly(sulfobetaine methacrylate). Langmuir : the ACS journal of surfaces and colloids, 41(7), 4524.
- Schrott R, et al. (2025) Prenatal opioid exposure and the early life epigenome: results from ECHO. Journal of substance use, 30(3), 484.
- Chen CJ, et al. (2025) Pre-Loading of Cells via Vapor Sublimation and the Deposition Polymerization Process with a 3D Porous Scaffold for Cell Cultures. ACS biomaterials science & engineering, 11(8), 4941.
- Niu Z, et al. (2025) Maternal Cardiometabolic Risk Factors in Pregnancy and Offspring Blood Pressure at Age 2 to 18 Years. JAMA network open, 8(5), e259205.
- Suolitiken D, et al. (2025) Transformed to myelofibrosis is a risk factor for pulmonary hypertension in Philadelphia chromosome-negative myeloproliferative neoplasms. Annals of hematology, 104(4), 2279.