Resource Summary Report

Generated by Kravitz on Sep 10, 2026

breseq

RRID:SCR_010810
Type: Tool

Proper Citation

breseq (RRID:SCR_010810)

Resource Information

URL: https://code.google.com/p/breseq/

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Description: A computational pipeline for finding mutations relative to a reference sequence in short-read DNA re-sequencing data intended for haploid microbial genomes.

Abbreviations: breseq

Synonyms: breseq - Determine mutations in evolved microbes from next-generation sequencing data

Resource Type: software resource

Keywords: windows, genomics, sequencing, bio.tools

Resource Name: breseq

Resource ID: SCR_010810

Alternate IDs: OMICS_00298, biotools:breseq

Alternate URLs: https://barricklab.org/twiki/bin/view/Lab/ToolsBacterialGenomeResequencing, https://bio.tools/breseq

Record Creation Time: 20220129T080300+0000

Record Last Update: 20260905T132647+0000

Ratings and Alerts

No rating or validation information has been found for breseq.

No alerts have been found for breseq.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 474 mentions in open access literature.

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

Mazny BE, et al. (2026) Evolved formate assimilation in phototrophic Rhodopseudomonas palustris indicates the need for a CO2-concentrating mechanism. Current biology : CB, 36(1), 110.

Yoshii Y, et al. (2026) Intermittent antibiotic exposure of Escherichia coli biofilms drives resistance in catheter-associated infection models. NPJ biofilms and microbiomes, 12(1), 41.

Kanaris O, et al. (2026) Consequences of benzalkonium chloride tolerance for selection dynamics and de novo resistance evolution driven by antibiotics. npj antimicrobials and resistance, 4(1), 2.

Royer G, et al. (2026) Piperacillin-tazobactam resistance in Klebsiella pneumoniae is often associated with IS26-mediated blaSHV-1 amplification in a widespread Klebsiella-adapted plasmid. Antimicrobial agents and chemotherapy, 70(5), e0168225.

Thapa M, et al. (2026) Translocation of bacteria from the gut to the brain in mice. PLoS biology, 24(3), e3003652.

Wang J, et al. (2026) Time-associated phenotypic changes related to virulence and immune interaction of Staphylococcus aureus during relapsing infection within individual hosts. BMC infectious diseases, 26(1).

Kuzio?a M, et al. (2026) Fluoroquinolones as the linchpin of tuberculosis therapy: contrasting efficacy and resistance profiles in Mycobacterium tuberculosis versus Mycobacterium abscessus. Frontiers in cellular and infection microbiology, 16, 1833650.

Stuart EC, et al. (2026) Sequential Phage Delivery Can Outperform Cocktails by Delaying Cross-Resistance Evolution. Viruses, 18(4).

Ets L, et al. (2026) Adaptive evolution of Pseudomonas putida in the presence of fluoride exposes novel functions of a benzoate transporter. Journal of bacteriology, 208(4), e0047925.

Le Scornet A, et al. (2026) Inactivation of a purine biosynthesis repressor promotes ribosome synthesis to overcome antibiotic stress. mBio, 17(5), e0011826.

Carr JF, et al. (2026) Impaired envelope integrity in the absence of SanA is linked to increased lipid II availability and an imbalance of septal peptidoglycan synthesis. mBio,

17(6), e0063526.

McLaughlin M, et al. (2026) An N4-like Caulobacter phage requires host smooth lipopolysaccharide biosynthesis for infection. Journal of bacteriology, 208(3), e0048825.

Royer M, et al. (2026) The mecillinam resistome in Klebsiella pneumoniae: how resistance to a one-target ?-lactam triggers a diversity of responses. Antimicrobial agents and chemotherapy, 70(3), e0120725.

Ramiro-Martínez P, et al. (2026) Plasmid mutation rates scale with copy number. Proceedings of the National Academy of Sciences of the United States of America, 123(4), e2526088123.

Ellison TJ, et al. (2026) A WYL transcriptional regulator activates the DNA damage response pathway in Acinetobacter species. Nucleic acids research, 54(6).

Gloag ES, et al. (2026) Pseudomonas aeruginosa biofilm-deficient mutants undergo parallel evolution during chronic infection. Journal of bacteriology, 208(6), e0052025.

Lakey BD, et al. (2026) Mucin-derived sugars act as metabolic brakes controlling growth initiation in Akkermansia muciniphila. Gut microbes, 18(1), 2691334.

Luong T, et al. (2026) Ecological partitioning enables phage-antibiotic cooperation in a human Pseudomonas infection. Nature communications, 17(1).

Mezcord V, et al. (2026) Vitamin B12 promotes cefiderocol resistance and small-colony variants in carbapenem-resistant Acinetobacter baumannii. mBio, 17(2), e0376025.

Pérez-Morales G, et al. (2026) Enhancing the heat tolerance of homolactic Escherichia coli through reverse metabolic engineering. Applied microbiology and biotechnology, 110(1), 26.