

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

T-REX

RRID:SCR_010715

Type: Tool

Proper Citation

T-REX (RRID:SCR_010715)

Resource Information

URL: <http://trex.biohpc.org/>

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Description: T-REX is a free, platform-independent online tool that allows for an integrated, rapid, and more robust analysis of T-RFLP data. Despite increasing popularity and improvements in terminal restriction fragment length polymorphism (T-RFLP) and other microbial community fingerprinting techniques, there are still numerous obstacles that hamper the analysis of these datasets. Many steps are required to process raw data into a format ready for analysis and interpretation. These steps can be time-intensive, error-prone, and can introduce unwanted variability into the analysis. Accordingly, we developed T-REX, free, online software for the processing and analysis of T-RFLP data. Analysis of T-RFLP data generated from a multiple-factorial study was performed with T-REX. With this software, we were able to i) label raw data with attributes related to the experimental design of the samples, ii) determine a baseline threshold for identification of true peaks over noise, iii) align terminal restriction fragments (T-RFs) in all samples (i.e., bin T-RFs), iv) construct a two-way data matrix from labeled data and process the matrix in a variety of ways, v) produce several measures of data matrix complexity, including the distribution of variance between main and interaction effects and sample heterogeneity, and vi) analyze a data matrix with the additive main effects and multiplicative interaction (AMMI) model.

Abbreviations: T-REX

Synonyms: T-REX (T-RFLP analysis EXpedited), T-REX: Software for the processing and analysis of T-RFLP data, T-RFLP analysis EXpedited

Resource Type: data analysis service, service resource, production service resource, analysis service resource

Defining Citation: [PMID:19500385](#)

Funding: Microsoft Corporation ;
NSF DGE 0221658

Resource Name: T-REX

Resource ID: SCR_010715

Alternate IDs: nlx_89468

Record Creation Time: 20220129T080300+0000

Record Last Update: 20260801T042659+0000

Ratings and Alerts

No rating or validation information has been found for T-REX.

No alerts have been found for T-REX.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 119 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Motiwala T, et al. (2025) Molecular dynamic simulations to assess the structural variability of ClpV from Enterobacter cloacae. Frontiers in bioinformatics, 5, 1498916.

Wu Z, et al. (2025) Human autoimmunity at single cell resolution in aplastic anemia before and after effective immunotherapy. Nature communications, 16(1), 5048.

Bryant N, et al. (2025) Rhinovirus as a driver of airway T cell dynamics in children with treatment-refractory recurrent wheeze. JCI insight, 10(9).

Hagyouf YA, et al. (2025) Molecular signatures of xenograft colorectal cancer in mice treated with topotecan: A mass spectrometry-based study. Toxicology reports, 14, 102045.

Aryal S, et al. (2025) Antimicrobial potential of actinomycetes from high altitude Nepalese soils. Scientific reports, 15(1), 33915.

Belmonte-Reche E, et al. (2025) Insight into the epigenetic regulation of gene expression in the bloodstream and procyclic forms of Trypanosoma brucei through the involvement of G-quadruplexes. NAR genomics and bioinformatics, 7(3), lqaf100.

Thirman HL, et al. (2025) Connecting chemical structure to single cell signaling profiles. Communications biology, 8(1), 1137.

Choi JH, et al. (2025) No evidence that human GIGYF2 interacts with GRB10: implications for human disease. *Life science alliance*, 8(9).

Alqudah MAY, et al. (2025) Metabolomic Analysis, Antiproliferative, Anti-Migratory, and Anti-Invasive Potential of Amlodipine in Lung Cancer Cells. *Drug design, development and therapy*, 19, 1215.

Marshall JP, et al. (2024) Circadian regulation of locomotion, respiration, and arousability in adult blacklegged ticks (*Ixodes scapularis*). *Scientific reports*, 14(1), 14804.

Sterzi L, et al. (2024) Genetic barriers more than environmental associations explain *Serratia marcescens* population structure. *Communications biology*, 7(1), 468.

Chen W, et al. (2024) Phylogenomics analysis of velvet regulators in the fungal kingdom. *Microbiology spectrum*, 12(2), e0371723.

Thirman HL, et al. (2024) Single Cell Profiling Distinguishes Leukemia-Selective Chemotypes. *bioRxiv : the preprint server for biology*.

Febra C, et al. (2024) Acute venous thromboembolism plasma and red blood cell metabolomic profiling reveals potential new early diagnostic biomarkers: observational clinical study. *Journal of translational medicine*, 22(1), 200.

Arsyadi A, et al. (2023) A Nitrate-Transforming Bacterial Community Dominates in the *Miscanthus* Rhizosphere on Nitrogen-Deficient Volcanic Deposits of Miyake-jima. *Microorganisms*, 11(2).

Zenati RA, et al. (2023) Evaluation of Two Simultaneous Metabolomic and Proteomic Extraction Protocols Assessed by Ultra-High-Performance Liquid Chromatography Tandem Mass Spectrometry. *International journal of molecular sciences*, 24(2).

Miranda RP, et al. (2023) Genome Organization of Four Brazilian *Xanthomonas albilineans* Strains Does Not Correlate with Aggressiveness. *Microbiology spectrum*, 11(3), e0280222.

Nsele NN, et al. (2023) Pezizomycetes Genomes Reveal Diverse P450 Complements Characteristic of Saprotrophic and Ectomycorrhizal Lifestyles. *Journal of fungi (Basel, Switzerland)*, 9(8).

Alkner S, et al. (2023) Protocol for the T-REX-trial: tailored regional external beam radiotherapy in clinically node-negative breast cancer patients with 1-2 sentinel node macrometastases - an open, multicentre, randomised non-inferiority phase 3 trial. *BMJ open*, 13(9), e075543.

Han R, et al. (2023) The antihelminth drug rafoxanide reverses chromosomal-mediated colistin-resistance in *Klebsiella pneumoniae*. *mSphere*, 8(5), e0023423.