

Resource Summary Report

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ERGO

RRID:SCR_001243

Type: Tool

Proper Citation

ERGO (RRID:SCR_001243)

Resource Information

URL: <http://igenbio.com/>

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Description: A web-based genome analysis platform that integrates proprietary functional genomic data, metabolic reconstructions, expression profiling, and biochemical and microbiological data with publicly available information. Focused on microbial genomics, it provides better and faster identification of gene function across all organisms. Building upon a comprehensive genomic database integrated with a collection of microbial metabolic and non-metabolic pathways and using proprietary algorithms, it assigns functions to genes, integrates genes into pathways, and identifies previously unknown or mischaracterized genes, cryptic pathways and gene products. . * Automated and manual annotation of genes and genomes * Analysis of metabolic and non-metabolic pathways to understand organism physiology * Comparison of multiple genomes to identify shared and unique features and SNPs * Functional analysis of gene expression microarray data * Data-mining for target gene discovery * In silico metabolic engineering and strain improvement

Abbreviations: ERGO

Synonyms: ERGO Genome Analysis and Discovery System, ERGO Genome Analysis & Discovery System

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

Keywords: genome analysis, genome, annotation, database, software, comparative genomics, function, gene, pathway, gene expression, microarray, FASEB list

Availability: Restricted

Resource Name: ERGO

Resource ID: SCR_001243

Alternate IDs: OMICS_02097

Record Creation Time: 20220129T080206+0000

Record Last Update: 20260808T190346+0000

Ratings and Alerts

No rating or validation information has been found for ERGO.

No alerts have been found for ERGO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 68 mentions in open access literature.

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

Yuan Y, et al. (2026) A Biologically Informed Vision-Guided Framework for Interpretable T Cell Receptor-Epitope Binding Prediction. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(4), e12544.

Díaz-Delgado E, et al. (2025) Potential metabolic records in isotope signals of chondrichthyan hard tissues. Journal of fish biology, 107(3), 1001.

Bandyopadhyay S, et al. (2025) Distinct Cytokine Responses in Central and Systemic Compartments after Subarachnoid Haemorrhage. Translational stroke research, 16(5), 1766.

Zhang K, et al. (2025) Natural variability of lung function in primary ciliary dyskinesia: longitudinal analysis from the PROVALF-PCD cohort. ERJ open research, 11(3).

Gupta S, et al. (2025) Perspectives on electron transfer kinetics across graphene-family nanomaterials and interplay of electronic structure with defects and quantum capacitance. Scientific reports, 15(1), 19722.

Savin TV, et al. (2025) Development and Clinical Validation of a Skin Test for In Vivo Assessment of SARS-CoV-2 Specific T-Cell Immunity. Viruses, 17(9).

Castorina LV, et al. (2025) Assessing the generalization capabilities of TCR binding predictors via peptide distance analysis. PloS one, 20(5), e0324011.

Tan LL, et al. (2025) Electrochemically reduced graphene oxide integrated with carboxylated-8-carboxamidoquinoline: A platform for highly sensitive voltammetric

detection of Zn(II) ion by screen-printed carbon electrode. PloS one, 20(2), e0315974.

Tomsho KS, et al. (2025) Exploring associations between the Phthalate Environmental Reproductive Health Literacy (PERHL) scale & biomarkers of phthalate exposure: A pilot study. Journal of exposure science & environmental epidemiology, 35(4), 619.

Que J, et al. (2025) Identifying T cell antigen at the atomic level with graph convolutional network. Nature communications, 16(1), 5171.

Villalaín J, et al. (2025) Ergothioneine Thione Spontaneously Binds to and Detaches from the Membrane Interphase. Membranes, 15(11).

Martinez O, et al. (2024) Comparison of Yamuna (India) and Mississippi River (United States of America) bacterial communities reveals greater diversity below the Yamunotri Glacier. PloS one, 19(7), e0304664.

Tomsho KS, et al. (2024) Development of a Phthalate Environmental Reproductive Health Literacy (PERHL) Scale. Environmental health perspectives, 132(4), 47013.

Bae K, et al. (2024) Concurrent validity and test reliability of the deep learning markerless motion capture system during the overhead squat. Scientific reports, 14(1), 29462.

Akyilmaz I, et al. (2024) Precision phenylalanine sensing in blood with nanomaterial-enhanced electrodes. RSC advances, 14(41), 29874.

Ishimoto T, et al. (2024) TrkB phosphorylation in serum extracellular vesicles correlates with cognitive function enhanced by ergothioneine in humans. NPJ science of food, 8(1), 11.

Oh DE, et al. (2024) Electrochemical DNA Cleavage Sensing for EcoRV Activity and Inhibition with an ERGO Electrode. Biosensors, 14(2).

Yang B, et al. (2024) A correlative study of the genomic underpinning of virulence traits and drug tolerance of Candida auris. Infection and immunity, 92(6), e0010324.

Tobin EE, et al. (2024) Omics-driven onboarding of the carotenoid producing red yeast Xanthophyllomyces dendrorhous CBS 6938. Applied microbiology and biotechnology, 108(1), 547.

Li J, et al. (2024) Sensitive detection of gallic acid in food by electrochemical sensor fabricated by integrating nanochannel film with nanocarbon nanocomposite. Frontiers in nutrition, 11, 1491345.