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, service resource, production service resource, data analysis service

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

Funding:

Availability: Commercially available

Resource Name: ERGO

Resource ID: SCR_001243

Alternate IDs: OMICS_02097

Record Creation Time: 20220129T080206+0000

Record Last Update: 20250416T063233+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 57 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

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.

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

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.

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.

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.

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.

Plumb JOM, et al. (2023) Cardiopulmonary exercise testing before and after intravenous iron in preoperative patients: a prospective clinical study. Perioperative medicine (London, England), 12(1), 31.

John AJUK, et al. (2023) An evaluation of mechanical and biophysical skin parameters at different body locations. Skin research and technology : official journal of International Society for Bioengineering and the Skin (ISBS) [and] International Society for Digital Imaging of Skin (ISDIS) [and] International Society for Skin Imaging (ISSI), 29(2), e13292.

McAnulty MJ, et al. (2023) The quorum sensing peptide BlpC regulates the transcription of genes outside its associated gene cluster and impacts the growth of Streptococcus thermophilus. Frontiers in microbiology, 14, 1304136.

Ranjith Kumar D, et al. (2023) Development of Polydiphenylamine@Electrochemically Reduced Graphene Oxide Electrode for the D-Penicillamine Sensor from Human Blood Serum Samples Using Amperometry. Polymers, 15(3).

Soliman A, et al. (2023) A fast privacy-preserving patient record linkage of time series data. Scientific reports, 13(1), 3292.

Dambha-Miller H, et al. (2023) Type 2 diabetes remission trajectories and variation in risk of diabetes complications: A population-based cohort study. PloS one, 18(8), e0290791.

Myronov A, et al. (2023) BERTrand-peptide:TCR binding prediction using Bidirectional Encoder Representations from Transformers augmented with random TCR pairing. Bioinformatics (Oxford, England), 39(8).

Nenclares P, et al. (2023) T-cell receptor determinants of response to chemoradiation in locally-advanced HPV16-driven malignancies. Frontiers in oncology, 13, 1296948.

Dale AP, et al. (2022) Effect of colonisation with Neisseria lactamica on cross-reactive anti-meningococcal B-cell responses: a randomised, controlled, human infection trial. The Lancet. Microbe, 3(12), e931.

Fruh V, et al. (2022) Urinary phthalate metabolite concentrations and personal care product use during pregnancy - Results of a pilot study. The Science of the total environment, 835, 155439.

Richards CL, et al. (2022) The arginine deaminase system plays distinct roles in Borrelia burgdorferi and Borrelia hermsii. PLoS pathogens, 18(3), e1010370.