

Resource Summary Report

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Peroxisome Database

RRID:SCR_008352

Type: Tool

Proper Citation

Peroxisome Database (RRID:SCR_008352)

Resource Information

URL: <http://www.peroxisomedb.org/>

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Description: The aim of the PEROXISOME database (PeroxisomeDB) is to gather, organize and integrate curated information on peroxisomal genes, their encoded proteins, their molecular function and metabolic pathway they belong to, and their related disorders. PeroxisomeDB contains the complete peroxisomal proteome of Homo sapiens (encoded by 85 genes) and Saccharomyces cerevisiae (encoded by 61 genes). Now, we have included 34 new organism genomes with the acquisition of 2426 new peroxisomal homolog proteins. PeroxisomeDB 2.0 integrates the peroxisomal metabolome of whole microbody family by the new incorporation of the glycosome proteomes of trypanosomatids and the glyoxysome proteome of Arabidopsis thaliana. The site also provides a Peroxisome Metabolome of peroxisomal genes and proteins, their molecular interactions and metabolic pathways, tools for comparative genomics, predictive tools. Sponsors: Peroxisome Database is funded by Institut de Génétique et de Biologie Molculaire et Cellulaire.

Synonyms: Preoxisomedb

Resource Type: data or information resource, database

Keywords: family, function, gene, arabidopsis thaliana, disorder, genome, genomic, glycosome, glyoxysome, homolog, homo sapiens, interaction, metabolic, metabolome, microbody, molecular, organism, pathway, peroxisome, protein, proteome, saccharomyces cerevisiae, trypanosomatid

Resource Name: Peroxisome Database

Resource ID: SCR_008352

Alternate IDs: nif-0000-25216

Record Creation Time: 20220129T080247+0000

Record Last Update: 20260815T182908+0000

Ratings and Alerts

No rating or validation information has been found for Peroxisome Database.

No alerts have been found for Peroxisome Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Gersting SW, et al. (2026) Peroxisomal interactome mapping enables network-based modelling of function and disease. Life science alliance, 9(9).

Qin X, et al. (2024) Identification and Validation of a PEX5-Dependent Signature for Prognostic Prediction in Glioma. Biomolecules, 14(3).

Hunt LC, et al. (2023) An adaptive stress response that confers cellular resilience to decreased ubiquitination. Nature communications, 14(1), 7348.

Xiong Z, et al. (2022) A New Prognostic Indicator of Immune Microenvironment and Therapeutic Response in Lung Adenocarcinoma Based on Peroxisome-Related Genes. Journal of immunology research, 2022, 6084589.

Tarafdar S, et al. (2022) Translating the Arabidopsis thaliana Peroxisome Proteome Insights to Solanum lycopersicum: Consensus Versus Diversity. Frontiers in cell and developmental biology, 10, 909604.

Villalba GC, et al. (2021) Fantastic databases and where to find them: Web applications for researchers in a rush. Genetics and molecular biology, 44(2), e20200203.

Liang Z, et al. (2021) Newly identified genes contribute to vanillin tolerance in Saccharomyces cerevisiae. Microbial biotechnology, 14(2), 503.

Anteghini M, et al. (2021) In-Pero: Exploiting Deep Learning Embeddings of Protein Sequences to Predict the Localisation of Peroxisomal Proteins. International journal of molecular sciences, 22(12).

Verner Z, et al. (2021) Anaerobic peroxisomes in Entamoeba histolytica metabolize myo-inositol. PLoS pathogens, 17(11), e1010041.

Coppa A, et al. (2020) The peroxisomal fatty acid transporter ABCD1/PMP-4 is required in the *C. elegans* hypodermis for axonal maintenance: A worm model for adrenoleukodystrophy. *Free radical biology & medicine*, 152, 797.

Kunze M, et al. (2020) The type-2 peroxisomal targeting signal. *Biochimica et biophysica acta. Molecular cell research*, 1867(2), 118609.

Rusilowicz-Jones EV, et al. (2020) USP30 sets a trigger threshold for PINK1-PARKIN amplification of mitochondrial ubiquitylation. *Life science alliance*, 3(8).

Van Dolah FM, et al. (2020) Transcriptomic analysis of polyketide synthases in a highly ciguatoxic dinoflagellate, *Gambierdiscus polynesiensis* and low toxicity *Gambierdiscus pacificus*, from French Polynesia. *PloS one*, 15(4), e0231400.

Song J, et al. (2018) Dysregulation of the NUDT7-PGAM1 axis is responsible for chondrocyte death during osteoarthritis pathogenesis. *Nature communications*, 9(1), 3427.

Launay N, et al. (2017) Tauroursodeoxycholic bile acid arrests axonal degeneration by inhibiting the unfolded protein response in X-linked adrenoleukodystrophy. *Acta neuropathologica*, 133(2), 283.

Ámon J, et al. (2017) A eukaryotic nicotinate-inducible gene cluster: convergent evolution in fungi and bacteria. *Open biology*, 7(12).

Haimovich G, et al. (2016) A role for mRNA trafficking and localized translation in peroxisome biogenesis and function? *Biochimica et biophysica acta*, 1863(5), 911.

Reumann S, et al. (2016) Characterization, prediction and evolution of plant peroxisomal targeting signals type 1 (PTS1s). *Biochimica et biophysica acta*, 1863(5), 790.

Yaegashi J, et al. (2015) Genome mining and molecular characterization of the biosynthetic gene cluster of a diterpenic meroterpenoid, 15-deoxyoxalicine B, in *Penicillium canescens*. *Chemical science*, 6(11), 6537.

Fourcade S, et al. (2015) Oxidative stress, mitochondrial and proteostasis malfunction in adrenoleukodystrophy: A paradigm for axonal degeneration. *Free radical biology & medicine*, 88(Pt A), 18.