

Resource Summary Report

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Proteopedia - Life in 3D

RRID:SCR_004647

Type: Tool

Proper Citation

Proteopedia - Life in 3D (RRID:SCR_004647)

Resource Information

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

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Description: Free, collaborative 3D, interactive encyclopedia of proteins and other molecules, it collects, organizes and disseminates structural and functional knowledge about protein, RNA, DNA, and other macromolecules, and their assemblies and interactions with small molecules, in a manner that is relevant and broadly accessible to students and scientists. With a free user account, users can edit pages in Proteopedia. Click on the green links to change the 3D image or click and drag the molecules. Categories include Diseases & Related Topics, Enzymes, Gene Expression & Replication, Metabolism, Signaling & Transport, Structural Biology and Miscellaneous. Currently, Proteopedia has 93,912 articles (pages), and 2,366 registered users (May 2013). Among other pages, Proteopedia contains one page (or article) for every entry in the World Wide Protein Data Bank. Proteopedia is updated weekly with new entries shortly after they are released by the Protein Data Bank. Most of these pages, which are titled with a four-character PDB identification code, are seeded automatically to include a default view of the asymmetric unit, the abstract of the publication, green links to sites and ligands, and molecule-specific links to other viewers and databases. When you go to a random page, you nearly always get one of these automatically-seeded, PDB-code-titled pages (click Random Page in the navigation box at the upper left), because of their abundance. In addition to one article about each entry in the Protein Data Bank (PDB identification code-titled articles), there are articles titled with the name of a molecule or a subject, instead of a PDB identification code. Some of these articles that have substantial content are listed at Topic Pages, or you can browse a complete list of articles not titled with a PDB identification code. There are also articles About Macromolecular Structure.

Abbreviations: Proteopedia

Resource Type: data or information resource, narrative resource, wiki

Defining Citation: [PMID:21567857](#), [PMID:21536137](#), [PMID:19117028](#), [PMID:18673581](#)

Keywords: protein, molecule, 3d, rna, dna, structure, function, nucleic acid, biomolecule, structural annotation, 3d visualization, visualization, disease, enzyme, gene expression, replication, metabolism, signaling, transport, structural biology, 3d spatial image

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European Union 6th Framework LSHG-CT-2006-031220

Availability: Free, The community can contribute to this resource

Resource Name: Proteopedia - Life in 3D

Resource ID: SCR_004647

Alternate IDs: nlx_64233

Record Creation Time: 20220129T080225+0000

Record Last Update: 20260905T132522+0000

Ratings and Alerts

No rating or validation information has been found for Proteopedia - Life in 3D.

No alerts have been found for Proteopedia - Life in 3D.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Tanoli Z, et al. (2021) Exploration of databases and methods supporting drug repurposing: a comprehensive survey. Briefings in bioinformatics, 22(2), 1656.

Waman VP, et al. (2021) The impact of structural bioinformatics tools and resources on SARS-CoV-2 research and therapeutic strategies. Briefings in bioinformatics, 22(2), 742.

Kim JG, et al. (2021) RhoA GTPase phosphorylated at tyrosine 42 by src kinase binds to ??-catenin and contributes transcriptional regulation of vimentin upon Wnt3A. Redox biology, 40, 101842.

Orengo C, et al. (2020) A community proposal to integrate structural bioinformatics activities in ELIXIR (3D-Bioinfo Community). F1000Research, 9.

Kumar R, et al. (2019) Exploring the new horizons of drug repurposing: A vital tool for turning hard work into smart work. European journal of medicinal chemistry, 182, 111602.

Jenkinson J, et al. (2018) Molecular Biology Meets the Learning Sciences: Visualizations in Education and Outreach. Journal of molecular biology, 430(21), 4013.

Safran M, et al. (2010) GeneCards Version 3: the human gene integrator. Database : the journal of biological databases and curation, 2010, baq020.

Hodis E, et al. (2008) Proteopedia - a scientific 'wiki' bridging the rift between three-dimensional structure and function of biomacromolecules. Genome biology, 9(8), R121.