# Resource Summary Report

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## SWISS-MODEL

RRID:SCR_018123
Type: Tool

### Proper Citation

SWISS-MODEL (RRID:SCR_018123)

### Resource Information

**URL:** https://swissmodel.expasy.org/

**Proper Citation:** SWISS-MODEL (RRID:SCR_018123)

**Description:** Software tool as fully automated protein structure homology modeling server, accessible via ExPASy web server, or from program DeepView Swiss Pdb-Viewer. Structural bioinformatics web-server dedicated to homology modeling of 3D protein structures. Used to make protein modelling accessible to all biochemists and molecular biologists.

**Resource Type:** web service, service resource, data or information resource, software resource, data access protocol

**Defining Citation:** PMID:12824332

**Keywords:** 3D protein structure, homology modeling server, protein modeling, structural bioinformatics, automated comparative modeling, bio.tools

**Funding:**

**Availability:** Free, Freely available

**Resource Name:** SWISS-MODEL

**Resource ID:** SCR_018123

**Alternate IDs:** biotools:swiss-model_workspace, biotools:swiss_model

**Alternate URLs:** https://bio.tools/swiss_model, https://bio.tools/swiss-model_workspace

**Record Creation Time:** 20220129T080338+0000

**Record Last Update:** 20250401T061510+0000

## Ratings and Alerts

No rating or validation information has been found for SWISS-MODEL.

No alerts have been found for SWISS-MODEL.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 2395 mentions in open access literature.

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

Mutai H, et al. (2025) Genetic landscape in undiagnosed patients with syndromic hearing loss revealed by whole exome sequencing and phenotype similarity search. Human genetics, 144(1), 93.

Xu Y, et al. (2025) SLC10A5 deficiency causes hypercholanemia. Hepatology (Baltimore, Md.), 81(2), 408.

Li Y, et al. (2025) A gain-of-function mutation at the C-terminus of FT-D1 promotes heading by interacting with 14-3-3A and FDL6 in wheat. Plant biotechnology journal, 23(1), 20.

Rosa D, et al. (2025) Investigation of alpha-glucosidase inhibition activity of Artabotrys sumatranus leaf extract using metabolomics, machine learning and molecular docking analysis. PloS one, 20(1), e0313592.

Liang X, et al. (2025) Genome-Wide Identification of GmPIF Family and Regulatory Pathway Analysis of GmPIF3g in Different Temperature Environments. International journal of molecular sciences, 26(2).

Roy S, et al. (2025) An approach to predict and inhibit Amyloid Beta dimerization pattern in Alzheimer's disease. Toxicology reports, 14, 101879.

Spinsante C, et al. (2025) A bioinformatic approach to characterize the vitellogenin receptor and the low density lipoprotein receptor superfamily in the newt Cynops orientalis. Scientific reports, 15(1), 3403.

Liu X, et al. (2025) Comparative analysis of HKTs in six poplar species and functional

characterization of PyHKTs in stress-affected tissues. BMC genomics, 26(1), 18.

Wang S, et al. (2025) Structural and functional analysis reveals the catalytic mechanism and substrate binding mode of the broad-spectrum endolysin Ply2741. Virulence, 16(1), 2449025.

Thaiprayoon A, et al. (2025) Isolation of PCSK9-specific nanobodies from synthetic libraries using a combined protein selection strategy. Scientific reports, 15(1), 3594.

Gawad WE, et al. (2025) Cyclic di AMP phosphodiesterase nanovaccine elicits protective immunity against Burkholderia cenocepacia infection in mice. NPJ vaccines, 10(1), 22.

Liu F, et al. (2025) AmelOBP4: an antenna-specific odor-binding protein gene required for olfactory behavior in the honey bee (Apis mellifera). Frontiers in zoology, 22(1), 2.

Liu Q, et al. (2025) Identification of EXPA4 as a key gene in cotton salt stress adaptation through transcriptomic and coexpression network analysis of root tip protoplasts. BMC plant biology, 25(1), 65.

Francisco S, et al. (2025) Restoring adapter protein complex 4 function with small molecules: an in silico approach to spastic paraplegia 50. Protein science : a publication of the Protein Society, 34(1), e70006.

Aganja RP, et al. (2025) Expression and delivery of HA1-M2e antigen using an innovative attenuated Salmonella-mediated delivery system confers promising protection against H9N2 avian influenza challenge. Poultry science, 104(1), 104602.

Chen W, et al. (2025) PfGSTF2 endows resistance to quizalofop-p-ethyl in Polypogon fugax by GSH conjugation. Plant biotechnology journal, 23(1), 216.

Su S, et al. (2025) Analysis of the CHS Gene Family Reveals Its Functional Responses to Hormones, Salinity, and Drought Stress in Moso Bamboo (Phyllostachys edulis). Plants (Basel, Switzerland), 14(2).

Basmenj ER, et al. (2025) Computational epitope-based vaccine design with bioinformatics approach; a review. Heliyon, 11(1), e41714.

Vargas-Ruiz A, et al. (2025) Phylogenetic analysis and molecular structure of NS1 proteins of porcine parvovirus 5 isolates from Mexico. Archives of virology, 170(2), 40.

Li H, et al. (2025) Molecular Characterization, Recombinant Expression, and Functional Analysis of Carboxypeptidase B in Litopenaeus vannamei. Genes, 16(1).