

Resource Summary Report

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PISA

RRID:SCR_015749

Type: Tool

Proper Citation

PISA (RRID:SCR_015749)

Resource Information

URL: <http://www.ebi.ac.uk/pdbe/pisa/>

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Description: Web application for exploration of macromolecular interfaces. It calculates structural and chemical properties of macromolecular surfaces and interfaces, as well as quaternary structures (assemblies), their structural and chemical properties and dissociation patterns.

Abbreviations: PDBePISA

Synonyms: PDBePISA, Proteins Interfaces Structures and Assemblies

Resource Type: software resource, web application

Defining Citation: [PMID:17681537](#)

Keywords: macromolecule, assembly, dissociation pattern, chemical composition

Funding: BBSRC 721/B19544

Availability: Freely available, Free, Available for download, Tutorial available

Resource Name: PISA

Resource ID: SCR_015749

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260912T195830+0000

Ratings and Alerts

No rating or validation information has been found for PISA.

No alerts have been found for PISA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1638 mentions in open access literature.

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

Medina E, et al. (2026) Structural basis for sialoglycan recognition by the immune inhibitory receptor Siglec-10. *Structure (London, England : 1993)*, 34(5), 768.

Wilcox XE, et al. (2026) Structural repertoire of HCV broadly neutralizing antibodies targeting the E2 front layer supersite. *Structure (London, England : 1993)*, 34(4), 572.

Cervantes Rincón T, et al. (2026) Analysis of West Nile disease convalescents identifies human monoclonal antibodies protective against West Nile and related orthoflaviviruses. *Immunity*, 59(7), 2015.

Merighi DGS, et al. (2026) Cryo-EM structure of YfdQ reveals a widespread family of bacteriophage-associated proteins with shell-like assemblies. *Structure (London, England : 1993)*.

Soma T, et al. (2026) Structure and engineering of the large serine recombinase Bxb1 for gene integration. *Molecular cell*, 86(12), 2247.

Jang H, et al. (2026) Oncogenic PI3K γ variants reveal graded conformational spectrum with mutation-specific cryptic pockets. *Communications chemistry*, 9(1).

Paul HT, et al. (2026) mAbClust with AlphaFold 3 avoids hallucinations to define a quaternary broadly neutralizing HCV epitope. *bioRxiv : the preprint server for biology*.

Li Y, et al. (2026) Microglial Fkbp5 Impairs Post-Stroke Vascular Integrity and Regeneration by Promoting Yap1-Mediated Glycolysis and Oxidative Phosphorylation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(16), e12499.

Sivakumar R, et al. (2026) In silico prioritisation of EDN1 missense variants identifies mature endothelin-1 substitutions with predicted receptor-binding effects. *BMC genomics*, 27(1).

Wang Y, et al. (2026) The relationship between intellectual curiosity and adolescents' mathematical problem-solving ability: A moderated mediation model. *PloS one*, 21(3), e0344349.

Shi X, et al. (2026) Gestational choline supplementation regulates hippocampal granule neuron development and emotion-like behavior. *Communications biology*, 9(1).

Zeng Q, et al. (2026) Japanese encephalitis virus NS1 and NS4B synergistically target TLR3 signaling to promote viral replication. *mBio*, 17(6), e0360425.

Zou M, et al. (2026) Spatial transcriptomic atlas of murine neurotoxocariasis reveals region-specific host responses and dysfunction in the brain. *Nature communications*, 17(1).

Zhang Y, et al. (2026) MORC2 mediates transcriptional regulation through liquid-liquid phase separation. *eLife*, 14.

Singh M, et al. (2026) Structural and functional characterization of VapBC52 toxin-antitoxin system from *Mycobacterium tuberculosis*. *Nucleic acids research*, 54(11).

Chen Y, et al. (2026) Structure insight into FtsZ function maintaining under acid stress of *Streptococcus mutans*. *International journal of oral science*, 18(1), 3.

Lyons FMT, et al. (2026) Crystal structure and nanobodies against domain 3 of the malaria parasite fusogen *Plasmodium falciparum* HAP2. *The Biochemical journal*, 483(2), 119.

Higuera-Quira RD, et al. (2026) Bioactive Potential of *Agave tequilana* Dry Juice Extract: Chemical Profiling, Antinociceptive Effects, and Synergistic Modulation with Diclofenac in the Formalin Test. *Pharmaceuticals (Basel, Switzerland)*, 19(6).

Han L, et al. (2026) Cryo-EM structures of bacteriophage T4 portal-neck assembly intermediates reveal a viral genome retention mechanism. *Nature communications*, 17(1).

Tsai PC, et al. (2026) Structural study of monomeric and dimeric photosystem I-LHCI supercomplexes from a bryophyte. *Communications biology*, 9(1), 146.