

Resource Summary Report

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Viral Integrated Structural Evolution Dynamic Database

RRID:SCR_018793

Type: Tool

Proper Citation

Viral Integrated Structural Evolution Dynamic Database (RRID:SCR_018793)

Resource Information

URL: <https://prokoplab.com/vistedd/>

Proper Citation: Viral Integrated Structural Evolution Dynamic Database (RRID:SCR_018793)

Description: Database of SARS-CoV-2 and other viruses. Integrates structural and dynamic insights with viral evolution for proteins coded by virus. Each virus within database has workflow performed on each protein. Workflow consists of protein modeling, molecular dynamic simulations, evolutionary analysis, and mapping of protein-protein interactions. On page for each protein is link to individual protein data folder system, video of protein rotating with conservation, details of protein function, widget to purchase 3D print of protein at cost of production, amino acid movement from molecular dynamic simulations, and table of data for each amino acid of protein.

Abbreviations: VStEDD

Synonyms: Viral Integrated Structural Evolution Dynamic Database, SARS-CoV-2 dynamicome database

Resource Type: data or information resource, database

Defining Citation: [PMID:32511397](https://pubmed.ncbi.nlm.nih.gov/32511397/)

Keywords: Virus, SARS-CoV-2, COVID-19, proteins coded by virus, viral evolution, protein, data, amino acid, protein modeling, molecular dynamic simulation, evolutionary analysis, protein-protein interaction, protein- protein interaction mapping, protein data folder system, rotating protein video, protein function, molecular dynamic simulation

Related Condition: COVID-19

Funding: NIEHS K01 ES025435;
NIGMS R01 GM108618

Availability: Free, Freely available

Resource Name: Viral Integrated Structural Evolution Dynamic Database

Resource ID: SCR_018793

Record Creation Time: 20220129T080342+0000

Record Last Update: 20260905T133216+0000

Ratings and Alerts

No rating or validation information has been found for Viral Integrated Structural Evolution Dynamic Database.

No alerts have been found for Viral Integrated Structural Evolution Dynamic Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

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.

Gupta R, et al. (2020) SARS-CoV-2 (COVID-19) structural and evolutionary dynamicome: Insights into functional evolution and human genomics. The Journal of biological chemistry, 295(33), 11742.

Sirpilla O, et al. (2020) SARS-CoV-2-Encoded Proteome and Human Genetics: From Interaction-Based to Ribosomal Biology Impact on Disease and Risk Processes. Journal of proteome research, 19(11), 4275.