

# Resource Summary Report

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## Binding MOAD

RRID:SCR\_002294

Type: Tool

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### Proper Citation

Binding MOAD (RRID:SCR\_002294)

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### Resource Information

**URL:** <http://www.bindingmoad.org/>

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**Description:** Database of protein-ligand crystal structures that is a subset of the Protein Data Bank (PDB), containing every high-quality example of ligand-protein binding. The resolved protein crystal structures with clearly identified biologically relevant ligands are annotated with experimentally determined binding data extracted from literature. A viewer is provided to examine the protein-ligand structures. Ligands have additional chemical data, allowing for cheminformatics mining. The binding-affinity data ranges 13 orders of magnitude. The issue of redundancy in the data has also been addressed. To create a nonredundant dataset, one protein from each of the 1780 protein families was chosen as a representative. Representatives were chosen by tightest binding, best resolution, etc. For the 1780 best complexes that comprise the nonredundant version of Binding MOAD, 475 (27%) have binding data. This collection of protein-ligand complexes will be useful in elucidating the biophysical patterns of molecular recognition and enzymatic regulation. The complexes with binding-affinity data will help in the development of improved scoring functions and structure-based drug discovery techniques.

**Abbreviations:** Binding MOAD

**Synonyms:** BindingMOAD.org, Binding Mother of All Databases

**Resource Type:** data or information resource, database

**Defining Citation:** [PMID:18055497](#), [PMID:16168689](#), [PMID:15971202](#)

**Keywords:** drug, enzymatic, affinity, binding, binding-affinity, biological, chemical, cheminformatic, crystal, crystallography, intermolecular interaction, signaling pathway, ligand, protein, ligand-protein binding, protein crystal structure, protein-ligand, protein-ligand complex

**Funding:** MCB 546073

**Availability:** Free, Public, Acknowledgement requested

**Resource Name:** Binding MOAD

**Resource ID:** SCR\_002294

**Alternate IDs:** OMICS\_01900, nif-0000-21048

**Record Creation Time:** 20220129T080212+0000

**Record Last Update:** 20261017T203304+0000

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## Ratings and Alerts

No rating or validation information has been found for Binding MOAD.

No alerts have been found for Binding MOAD.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.