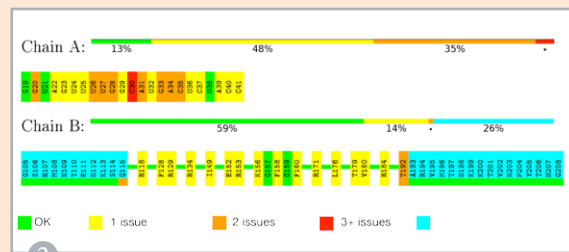
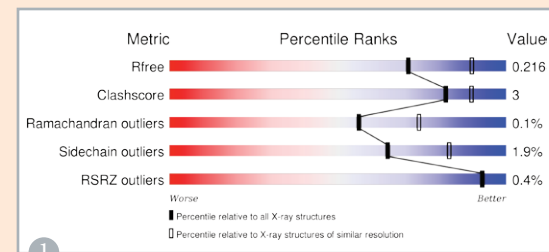


# OneDep: Unified Deposition Portal for the Protein Data Bank

wwPDB Partners - RCSB PDB, PDBe, PDBj, and BMRB



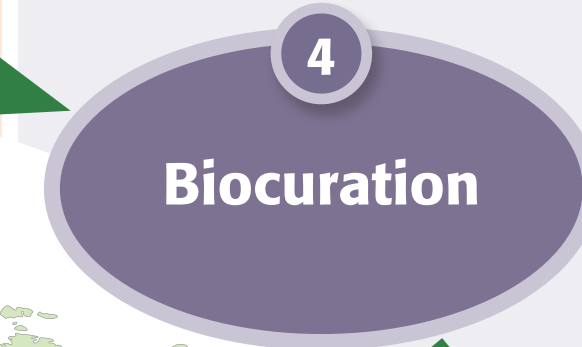
- Overall quality at a glance <sup>1</sup>
- Residue-property plots <sup>2</sup>
- X-ray fit of model and data
- NMR ensemble analysis
- NMR chemical shift validation



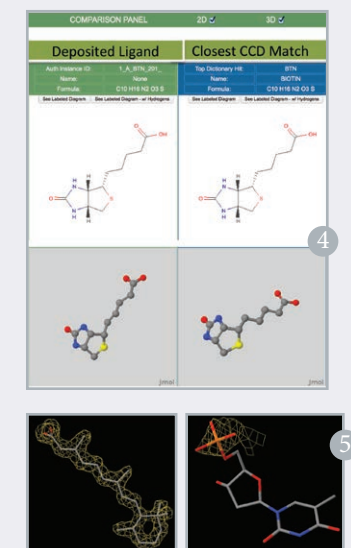
- System supports:**
- X-ray, NMR, and 3DEM
  - File re-upload
  - Submissions based on existing depositions



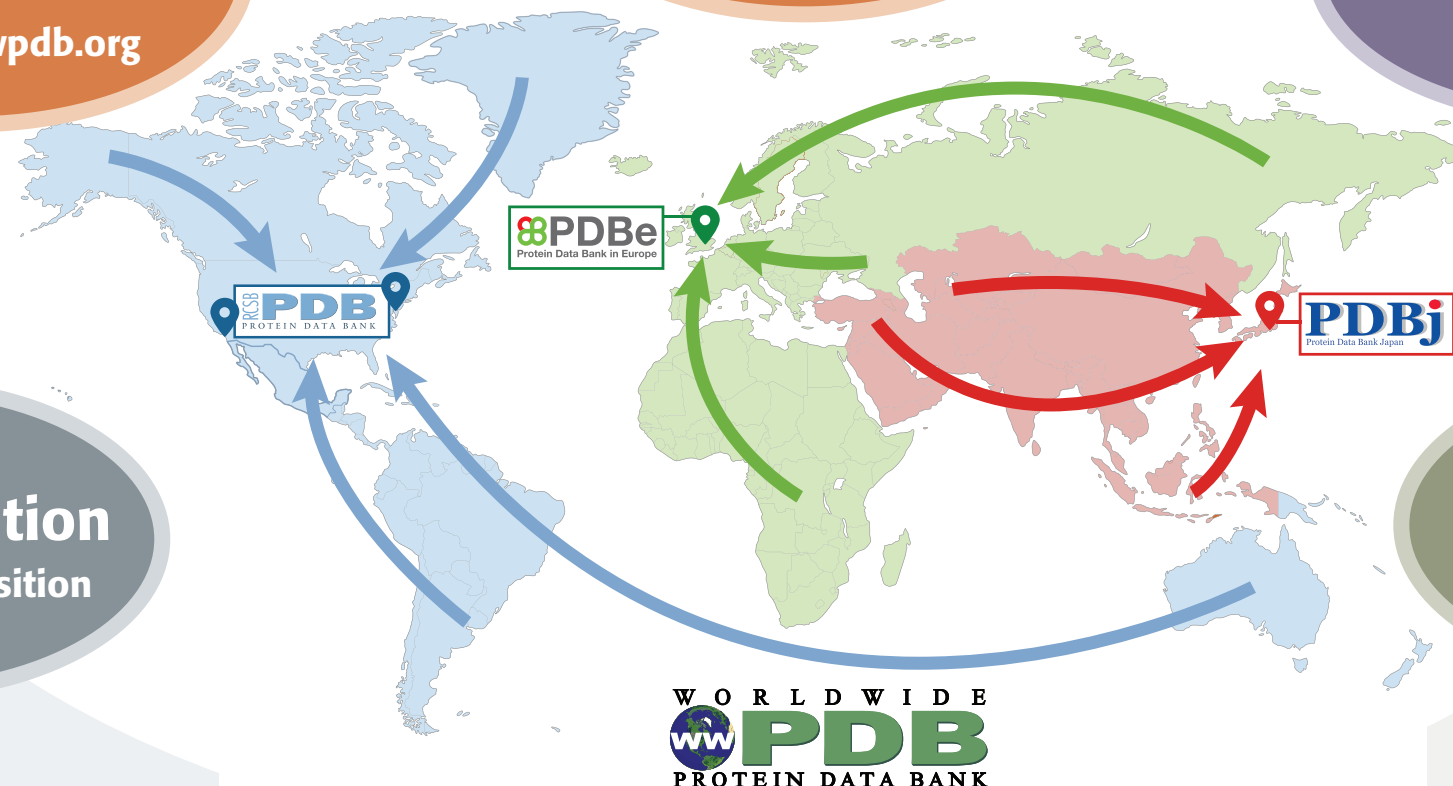
| POSITION | RESIDUE | ANNOTATION |
|----------|---------|------------|
| 1        | MET     | SP-P62161  |
| 2        | HIS     | SP-P62161  |
| 3        | HIS     | SP-P62161  |
| 4        | HIS     | SP-P62161  |
| 5        | HIS     | SP-P62161  |
| 6        | HIS     | SP-P62161  |
| 7        | HIS     | SP-P62161  |
| 8        | GLY     | SP-P62161  |
| 9        | SER     | SP-P62161  |
| 68       | ASP     | SP-P62161  |



- Sequence and taxonomy <sup>3</sup>
- Stereochemistry <sup>4</sup>
- Chemical nomenclature <sup>4</sup>
- Electron density fit <sup>5</sup>



- Generate atomic coordinate and experimental data files in PDBx/mmCIF format
- Assemble mandatory data items for deposition
- Complete sample polymer sequences including unobserved regions
- Source organism(s)
- Ligand and non-standard chemical details
- Macromolecular assembly and experimental support



OneDep, a unified system for deposition, biocuration, and validation of experimentally determined X-ray, NMR, and 3DEM macromolecular structures, has been developed as a global project by the Worldwide PDB partners (wwPDB). The system unifies deposition, biocuration, and validation procedures across all wwPDB, EMDB, and BMRB deposition centers with a focus on simplifying and improving the process for the Depositor, improving data quality and completeness, and addressing challenges of the increasing number, size, and complexity of structures deposited to the Protein Data Bank archive.



- Entries are released following Depositor instructions at deposition:
  - › Hold until publication
  - › Hold for a period of time (1 year max.)
  - › Release immediately
- Journal policies governing PDB entry release take precedence over author-requested embargo periods

## Acknowledgements:



Cite wwPDB: Announcing the worldwide Protein Data Bank. *Nature Structural Biology* 10, 980 (2003), doi: 10.1038/nsb1203-980

OneDep: Unified wwPDB System for Deposition, Biocuration, and Validation of Macromolecular Structures in the PDB Archive. *Structure* 25, 536–545 (2017), doi: 10.1016/j.str.2017.01.004