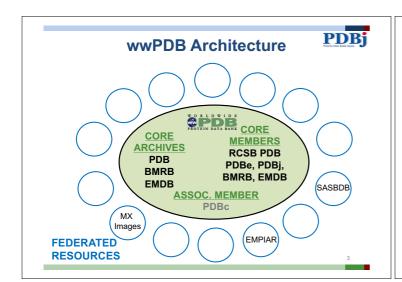
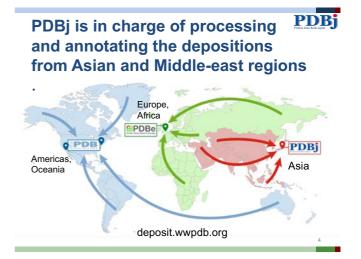


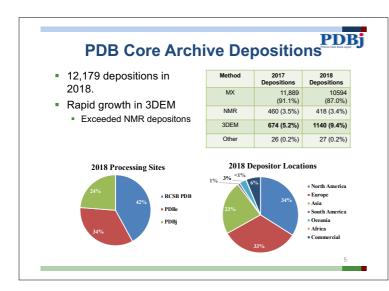
#### Recent activities of PDBj and wwPDB

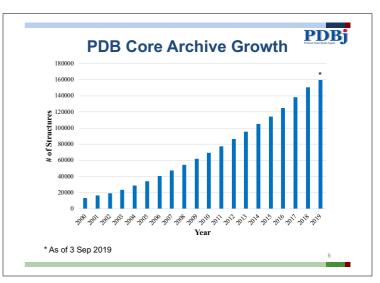
Genji Kurisu Institute for Protein Research, Osaka University











# **PDB Core Archive Downloads** More than 1.8 million/day! N.B.: Some 2018 data lost due to GDPR. Hope to be back on track for 2019→. \* As of 3 Sep 2019

## **PDB Core Archive Update I**



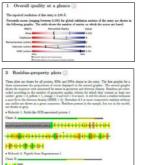
#### **Ligand Validation**

- Adapted software from Global Phasing Ltd. under a formal agreement
- Provides geometrical quality in 2D depiction
- Provides electron density fit for X-ray
- Now mandatory at deposition: identification of Ligand/s Of Interest (LOI, author's research focus)

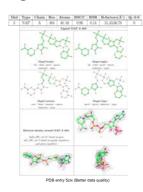
## Official wwPDB Validation Report is PDBj requested for peer review

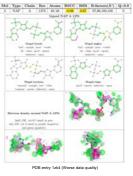


**Example of Validation report** 



### Ligand Validation- Examples on NADPPDBj Ligands





## **PDB Core Archive Update II**



#### **Coordinate Versioning**

- To improve data quality in the PDB archive
- Depositors can now make corrections to existing structures in the PDB Core Archive by updating the atomic coordinates while preserving the original PDB identifier.
- Deployed on July 27<sup>th</sup> 2019 for all structures that were originally deposited via OneDep (Phase one)
- First coordinate replacement (PDB entry 5T26) versioned at FTP on August 7th 2019 following reviewers' comments based on the wwPDB validation reports
  - With PDB prefix and extension of 4 characters (e.g., from "1ABC" to "PDB\_00001ABC")
  - Example: PDB 00001ABC XYZ V2-2.cif.gz

## **PDB Core Archive Update III**



#### **Use of ORCiD**

- To enable better management of incoming data
- To credit PDB entries by author unambiguously
- 25% of the unique depositors provided ORCiD ids
- 3342 unique PIs with ORCiD ids





#### **PDB Core Archive Plans**

- ED map coefficients
  - ED map coefficients have been provided to depositors during biocuration for new entries
  - As part of annual recalculation of validation reports, the ED map coefficients will be provided for existing entries at the wwPDB FTP site for better interpretation of the ligand validation by user community.
- Coordinate Versioning (Legacy entries)
  - Create OneDep deposition sessions
  - Enable authors access and login
  - Entries will be versioned at versioned FTP



I/HM manuscript was submitted.

## PDBj Atomic coordinates in PDBx/mmCIF

## **Acknowledgements**





