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PDB activities under ongoing Covid-19 situation, and up-to-date information on our quality improvement and data validation

By Genji Kurisu, Institute for Protein Research, Osaka University

PDBj (PDB Japan, <https://pdbj.org/>) is an Asian hub for the development of the single global archive for 3D macromolecular structure data as known as PDB, which is accessible freely online. In this session, we will talk how promptly we are trying to provide necessary information under the ongoing Covid-19 situation. We will also introduce our various quality improvement activities, and data validation system utilizing Cambridge Structural Database (CSD).

PDBj tools and services for analyzing and visualizing structural data.

By Gert-Jan Bekker, Institute for Protein Research, Osaka University

PDBj has developed multiple services for exploring, visualizing and retrieving data from the PDB. In this seminar, we will introduce some of the new functionality of the main PDBj website to search and explore PDB data. In addition, we will describe some of the new functionality of our WebGL based molecular viewer Molmil (<https://pdbj.org/molmil2/>) and show examples of how advanced visualization operations can be performed.

Services and databases for 3D electron microscopy data by PDBj and wwPDB

By Hirofumi Suzuki, Waseda University

The rate of increase in the number of electron microscopy (EM) data is still accelerating. EM raw images, 3D density maps, and atomic coordinates are stored in the databanks, EMPIAR, EMDB, and PDB, respectively. The seminar will cover recent trends in EM data in the databanks, new wwPDB activities such as validation reports for EM data, PDBj database activities, and services and tools for EM, such as EM Navigator and Omokage search.

Protein Data Bank Japan
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