A cofactor (inorganic ions and organic coenzyme cofactors) is a non-protein chemical compound or metallic ion that assists enzymes during the catalysis of reactions. Protein Data Bank (PDB) has a large number of enzyme crystal structures containing organic coenzyme cofactors. It is important to identify these organic coenzyme cofactors, when present in the 3D structure of an enzyme, in order to understand the function of the enzyme. This work will describe a workflow that Protein Data Bank in Europe (PDBe)[1], a WWPDB partner, is developing in collaboration with Prof. Janet Thornton’s team to identify and annotate organic coenzyme cofactors present in PDB by incorporating information from the CoFactor database (CoFactor - The organic enzyme cofactor database)[2].

1. PDBe: improved accessibility of macromolecular structure data from PDB and EMDB.

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