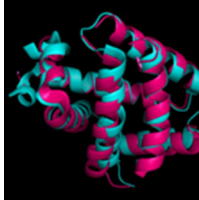
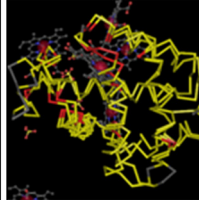
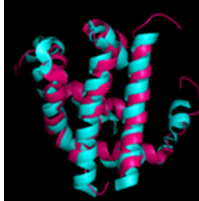
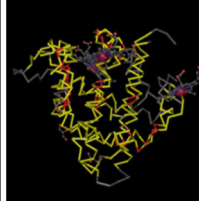
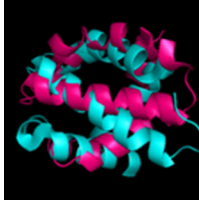
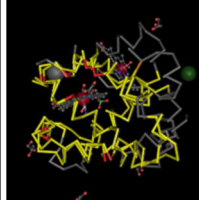
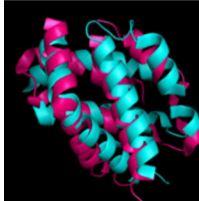
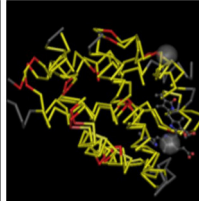

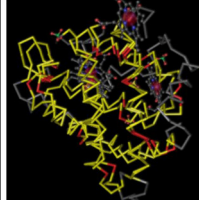


| PDB # - Function | RMSD - % Identity | Images from PyMOL and Cn3D | | References |
|--|--------------------------------------|--|---|----------------|
| <p>Example 1</p> <ul style="list-style-type: none"> - 2GTL_Chain A: <i>Lumbricus terrestris</i> (annelide) hemoglobin part of a 3.6million Dalton protein. Transports oxygen. - 1H97_Chain A: <i>Paramphistomum epiclitum</i> (trematode) monomeric hemoglobin. High affinity to oxygen. | <p>RMSD: 2.3 Identity: 12.1%</p> |  |  | <p>24, 25</p> |
| <p>Example 2</p> <ul style="list-style-type: none"> - 2GNW_Chain B: Found in plants. Its role is not yet determined. <i>Oryza sativa</i>. - 2W31_Chain A: detects oxygen and transmits signal. <i>Geobacter sulfurreducens</i>. | <p>RMSD: 3.2 Identity: 13.4%</p> |  |  | <p>27, 26</p> |
| <p>Example 3</p> <ul style="list-style-type: none"> - 2GLN_Chain A: nitric oxide scavenging. <i>Mycobacterium tuberculosis</i>. - 2ZS1_Chain A: extracellular giant Hb. Cooperative oxygen binding via inorganic cations. <i>Oligobrachia mashikoi</i>. | <p>RMSD: 2.4 Identity: 6.7%</p> |  |  | <p>28, 29,</p> |
| <p>Example 4</p> <ul style="list-style-type: none"> - 1KN1_Chain A: allophycocyanin, absorbs light, part of phycobilisomes and phycobilisome structural family. <i>Pyropia yezoensis</i>. - 2BNL_Chain C: Non heme, regulates s factor after environmental stress. <i>Bacillus subtilis</i> | <p>RMSD: 2.9 Identity: 11.4%</p> |  |  | <p>30, 31</p> |
| <p>Example 5</p> <ul style="list-style-type: none"> - 2VEB_Chain A: Found in archae, role is not yet determined. <i>Methanosarcina acetivorans</i>. - 1OJ6_Chain A: A neuroglobin found in human brain. Binds to oxygen. <i>Homo sapiens</i>. | <p>RMSD: 2.9 Identity: 12.7%</p> |  |  | <p>32, 33</p> |