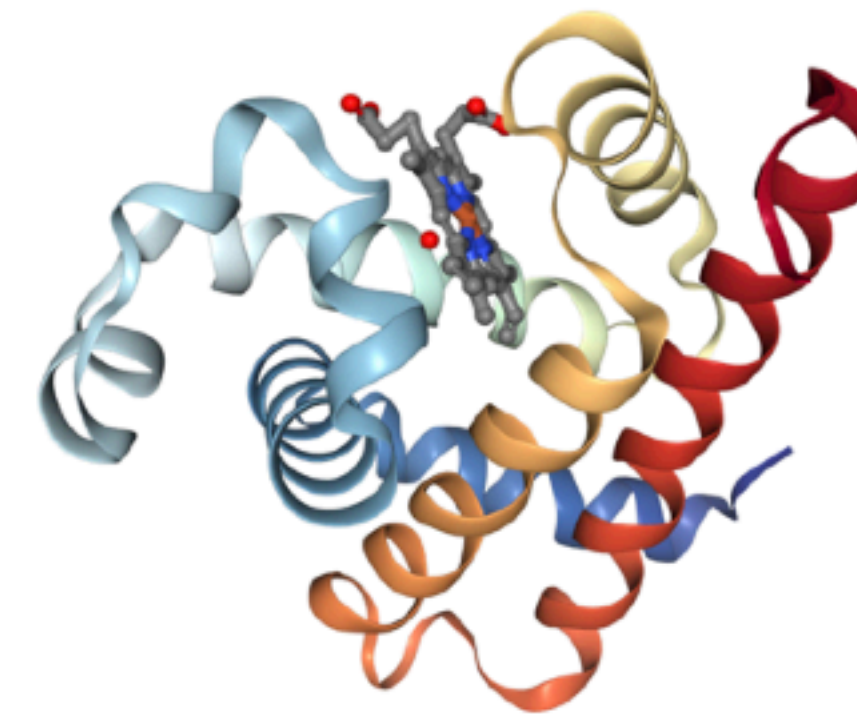


- Click on the “3D View” tab. This should open the structure using the program NGL.
- NGL allows you to interactively move the molecule and change its representation. Try rotating the molecule and zooming in and out.
- By default the protein is in a “Cartoon” style and colored by “Rainbow”. I will describe the advantages of this representation a bit later.

## 1MBN

The stereochemistry of the protein myoglobin

Note: Use your mouse to drag, rotate, and zoom in and out of the structure. Mouse-over to identify atoms and bonds. [Mouse controls documentation](#).



Spin Center Fullscreen Screenshot Perspective Camera White background Focus 0

NGL is a WebGL based 3D viewer powered by MMTF.

Select a different viewer NGL (WebGL)

Display Files Download Files

Structure View Electron Density Maps Ligand View

[Structure View Documentation](#)

Assembly Bioassembly 1

Model Model 1

Symmetry None

Style Cartoon

Color Rainbow

Ligand Ball & Stick

Quality Automatic

Water ☐ Ions ☒

Hydrogens ☒ Clashes ☐

Default Structure View

N-terminus

C-terminus

Rainbow - blue is the N-terminus and red is the C-terminus

- Change Style to “Licorice” and the Color to “By Element/CPK”.
- This representation shows every single covalent bond.
- Half of each stick of licorice is colored by atom type
- The position of hydrogen is usually not observed in structures solved by X-ray crystallography
- This representation shows where every atom is, but it is also very messy

