

1/14/2020 Week 1 Module 1

**Interactive Exercise: Visualizing
Structures of Biological Macromolecules**

- Let's get a better feel for the structure of biological macromolecules and protein-ligand interactions by using an online visualization tool!
- Browse to the Protein Data Bank (PDB) at <https://www.rcsb.org>. The PDB is a public repository of experimentally determined biological macromolecular structures.

The screenshot shows the RCSB PDB website homepage. The top navigation bar includes links for Deposit, Search, Visualize, Analyze, Download, Learn, and More, along with a MyPDB button. The main header features the RCSB PDB logo, the text "159230 Biological Macromolecular Structures Enabling Breakthroughs in Research and Education", and a search bar with the placeholder text "Search by PDB ID, author, macromolecule, sequence, or ligands". Below the search bar are links for "Advanced Search" and "Browse by Annotations". The left sidebar contains a "Welcome" message and a list of navigation options: Deposit, Search, Visualize, Analyze, Download, and Learn. The main content area is divided into three sections: "A Structural View of Biology" which describes the PDB's role in providing 3D structures of proteins and nucleic acids; "Celebrating 20 YEARS OF Molecule of the Month" which features a collage of molecular structures; and "January Molecule of the Month" which displays a large, colorful 3D model of a protein complex. The bottom of the page features a blue banner with the text "Twenty Years of Molecules".