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## StarBiochem

StarBiochem is a 3D protein viewer that allows students to learn key concepts in structural biology in an interactive manner. This software allows for the visualization and manipulation of many of the Protein Data Bank (<http://www.rcsb.org/>) molecules in a 3D environment.

## Using StarBiochem

StarBiochem is accessible via the web. Press the "START" button to get started.

	<b><u>Start StarBiochem application</u></b> Start using the StarBiochem application. If you are using GeoWall use <a href="#">this link</a> .
	<b><u>Read StarBiochem documentation</u></b> In-depth StarBiochem user manual
	<b><u>Send Us Feedback</u></b> Send us bug reports, comments, or questions. You can also send feedback via email to <code>#include &lt;emailstar.inc.html&gt;</code>

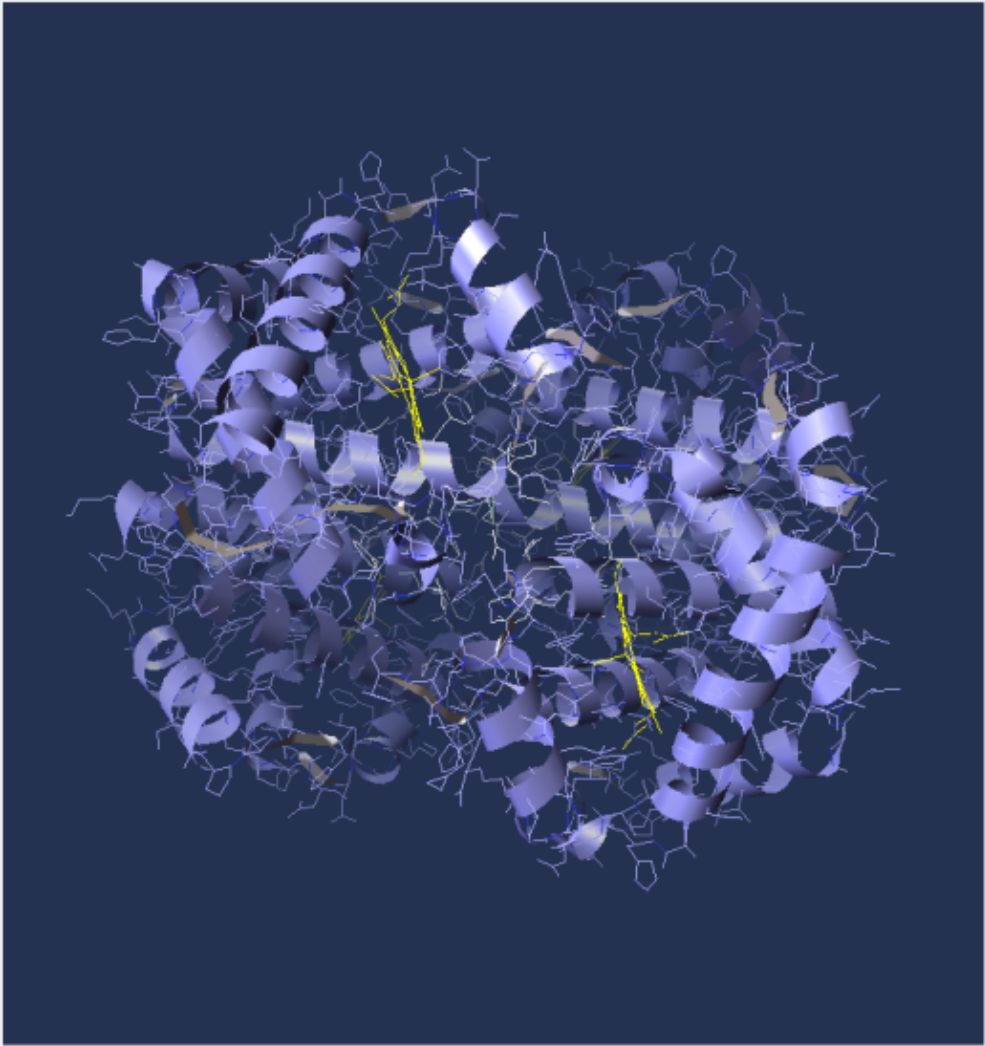
## Exercises

Sample exercises for StarBiochem can be found [here](#).

## StarBiochem Screen Shot

StarBiochem - 1A3N

File View Help



The main window displays a 3D ribbon diagram of the protein structure 1A3N. The protein is shown in a purple color, with several yellow ribbons highlighting specific regions or interactions. The structure is complex, with many alpha-helices and beta-sheets.

**Structure**

**View Controls**

**Selection Controls**

Select by

- Atom
- Residue
- Chain
- Helix
- Sheet
- Coil

Select

All None

Select residue by type

- ALA - Alanine
- ARG - Arginine
- ASN - Asparagine
- ASP - Aspartic
- CYS - Cysteine
- GLU - Glutamic
- GLN - Glutamine

**Measurement Tools**

**PDB Tree**

- 1A3N
  - A
  - B
  - C
  - D
  - HEM\_142
  - HEM\_147
  - HEM\_142
  - HEM\_147

**PDB Information**