

# Complex PDB documents using the Bioclipse ChildResourceCreator

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## Keywords

Bioclipse, Biojava, Cdk, Pdb, Jmol

## Abstract

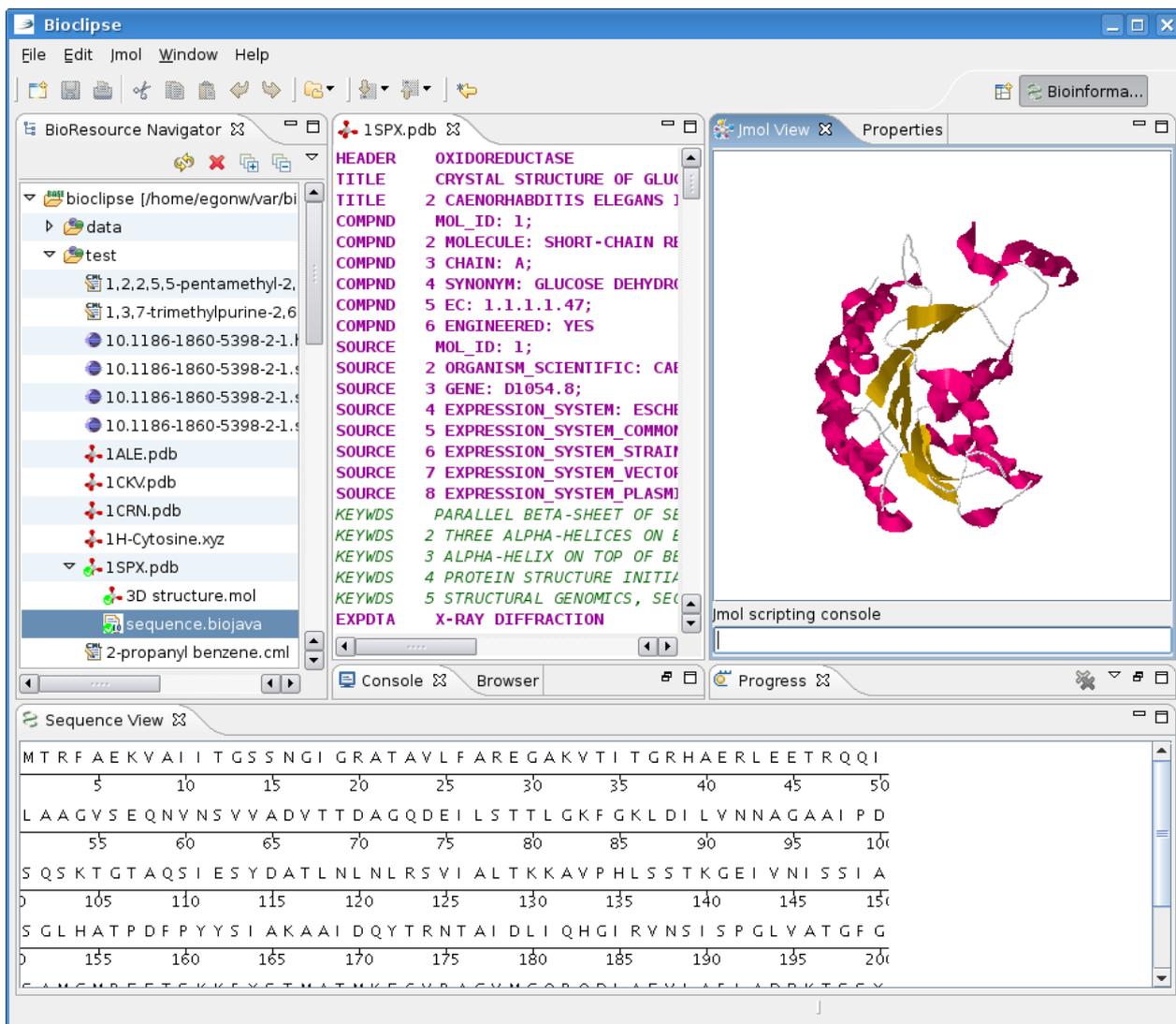
Some time ago I blogged about the ChildResourceCreator extension point in Bioclipse and hinted as using that for PDB files. which contain 3D molecular models, sequences and bibliographic information. Using the new extension point, Bioclipse now treats PDB files as complex documents, creating child resources for the 3D molecular model (using the CDK plugin), and a sequence resource (using the BioJava plugin).

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## chem-bla-ics

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The screenshot displays the Bioclipse application window. The main interface is divided into several panes:

- BioResource Navigator:** Shows a tree view of resources, including a 'test' folder with various files like '1SPX.pdb' and '3D structure.mol'.
- 1SPX.pdb:** Displays the PDB header information for the file 'OXIDOREDUCTASE CRYSTAL STRUCTURE OF GLUCOSE DEHYDROGENASE FROM CAENORHABDITIS ELEGANS'. Key fields include COMPND, SOURCE, KEYWDS, and EXPDTA.
- Jmol View:** Shows a 3D ribbon representation of the protein structure, colored in shades of pink and yellow.
- Sequence View:** Displays the amino acid sequence of the protein, with residue numbers 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200.