

Complex PDB documents using the Bioclipse ChildResourceCreator

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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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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).

The screenshot displays the Bioclipse application window. The **BioResource Navigator** on the left shows a tree structure with a 'test' folder containing several files, including '1SPX.pdb'. The central panel shows the PDB header for '1SPX.pdb', which is the structure of Glucose dehydrogenase from *Caenorhabditis elegans*. The header includes fields for title, compound, source, and keywords. The **Jmol View** on the right displays a 3D ribbon model of the protein structure. The **Sequence View** at the bottom shows the amino acid sequence of the protein, starting with 'MTRFAEKVAII' and ending with 'GAMCNRFEETSKK'. The **Console** and **Progress** panels are also visible at the bottom.