

Getting Jmol's 'cartoon on' to work in Bioclipse

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chem-bla-ics

Bioclipse 1.0 is to be released in May, and the cartoon on script command is still not working in the Jmol viewer. For those who do not know yet, Bioclipse is a cool Eclipse RCP based Java chemo-and bioinformatics workbench. To have a better idea what goes on inside Bioclipse, I wrote a new BioPolymer tree to show me the strands in the protein. After Ola wrote code to show properties for IChemObject's, I extended it with PDB properties for the atoms, strands and monomers.

The contents of the ChemTree view in the middle and the Properties view below that look fine:

The screenshot displays the Bioclipse application window with several views:

- BioResource Navigator:** A tree view on the left showing a project structure with files like 'PPARG_HUMAN.seq', 'sequence2.fasta', 'spectra', and various molecular files.
- PDB File Header:** A text view showing the header for 'pdb_1crn.pdb', including fields like 'TRANSCRIPTION REGULATION', 'GAL4 (RESIDUES 1 - 65) COMPLEX WITH 19MER DNA', 'RESOLUTION. 2.7 ANGSTROMS.', and 'REFINEMENT'.
- ChemTree:** A tree view showing a 'Polymer' structure with a 'Strand A' containing monomers CA1 through CA6.
- Sequence View:** A sequence alignment view showing the amino acid sequence: CCGGAGGACAGTCTCCGGCCGGAGGACTGTCTCCGGMKL I CRLKLLKCS KEKPKCAKCLKNNWECRYS PKTKR SPLTRAH R L E F M K L L S S I E Q A C D I C R L K L L K C S K E K P K C A K C L K N N W E S P L T R A H L T E V E S R L E R L E F
- Jmol View:** A 3D ribbon model of a protein-DNA complex, with the protein in orange and the DNA in grey.
- Console:** A window at the bottom right showing Jmol script commands and their output, such as 'Jmol cmd: wireframe off', 'Script completed', and 'Jmol cmd: select all; color CPK; select 4; color 1762 atoms selected'.

So I'll have to dig a bit further.