

# BioJava 2009: an Open-Source Framework for Bioinformatics

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The BioJava website is <http://biojava.org/>.

The version 1.7 release can be downloaded from <http://biojava.org/wiki/BioJava:Download>

BioJava is available under the terms of version 2.1 of the GNU Lesser General Public License (LGPL).

BioJava is a mature open-source project that provides a framework for processing of biological data. BioJava contains powerful analysis and statistical routines, tools for parsing common file formats, and packages for manipulating sequences and 3D structures. It enables rapid bioinformatics application development in the Java programming language. Here we present the latest BioJava release (version 1.7, released in Apr 2009).

Besides numerous bug fixes and stability improvements, a lot of development has been going on in the protein structure modules. BioJava now provides a framework for parsing mmCif files. The parsing of PDB header information has been improved and a new tool to read the Chemical component dictionary is in place.

An ongoing project is the open sourcing of the RCSB protein structure viewers. These have been made available as open source as a stand-alone project. Work is currently under way to provide a more close integration with BioJava.