

OSRA: GPL-ed molecule drawing to SMILES convertor



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Keywords

Cheminf, Openbabel

Abstract

Igor wrote a message to the CCL mailing list about OSRA:

Copyright

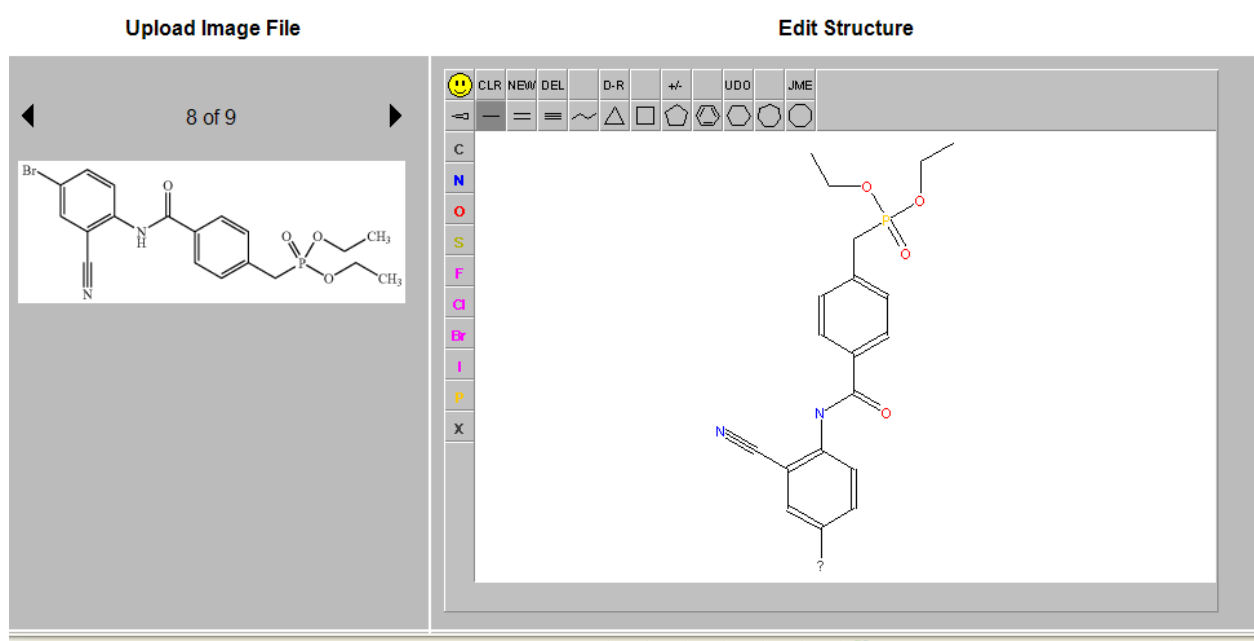
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Igor wrote a message to the [CCL mailing list](#) about [OSRA](#):

We would like to announce a new addition to the set of chemoinformatics tools available from the Computer-Aided Drug Design Group at the NCI-Frederick. OSRA is a utility designed to convert graphical representations of chemical structures, such as they appear in journal articles, patent documents, textbooks, trade magazines etc., into SMILES.

OSRA can read a document in any of the over 90 graphical formats parseable by ImageMagick (GIF, JPEG, PNG, TIFF, PDF, PS etc.) and generate the SMILES representation of the molecular structure images encountered within that document.

The email does not give any information on the fail rate, but the demo they provide via the [webinterface](#) does show some minor glitches (the bromine is not recognized):



The source reuses [OpenBabel](#) and uses the GPL license. The value equal to that of text mining tools like [OSCAR3](#), and together they sounds like the Jordan and Pippen of mining chemical literature.