chem-bla-ics

Bioclipse-Oscar4 - Text mining in Bioclipse

Egon Willighagen 🕞

Published September 27, 2011

Citation

Willighagen, E. (2011, September 27). Bioclipse-Oscar4 - Text mining in Bioclipse. *Chem-bla-ics*. https://doi.org/10.59350/qgrq1-4r761

Keywords

Oscar, Bioclipse, Beilstein

Abstract

Almost a year ago I started a position with Peter Murray-Rust to work on Oscar for three months (see this overview of results; a paper by the full Oscar team (Sam, David, Dan, Lezan) is pending, and I'm really happy to have been able to contribute bits to the project). Since then, I have had little time: (That's how it goes, with post-hopping, unfortunately. One thing I did do after that, was write a Bioclipse plugin.

Copyright

Copyright © Egon Willighagen 2011. Distributed under the terms of the Creative Commons Attribution 4.0 International License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

chem-bla-ics

Almost a year ago I started a position with Peter Murray-Rust to work on Oscar for three months (see this overview of results; a paper by the full Oscar team (Sam, David, Dan, Lezan) is pending, and I'm really happy to have been able to contribute bits to the project). Since then, I have had little time: (That's how it goes, with post-hopping, unfortunately. One thing I did do after that, was write a Bioclipse plugin.

I was asked recently via LinkedIn if I was planning a Bioclipse-Oscar plugin, and I realized that I forgot to blog about it. So, here goes. The oscar manager I implemented follows the Oscar API, and these methods are available: extractText(), findNamedEntities(), findResolvedNamedEntities().

When I wrote the plugin, I also uploaded an example workflow to MyExperiment. The code is:

```
// Demo showing the Oscar text mining functionality
// in Bioclipse
var html = bioclipse.download(
   "http://dx.doi.org/10.3762/bjoc.6.133",
   "text/html"
)
var text = oscar.extractText(html);
// the next step may take some time, while
// initializing the Oscar software for the
// first time
var mols = oscar.findResolvedNamedEntities(text);
var file = "/Oscar Demo/extractedMols.sdf";
cdk.saveSDFile(file, mols);
ui.open(file);
```

The code will extract chemical entities, and open a molecules table in Bioclipse:

chem-bla-ics

