Features

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1. Commons

This module provides reusable components used in the JPL:

- org.expasy.jpl.commons.app Interfaces and objects for the JPL command-line applications.
- org.expasy.jpl.commons.base Basic general domain component (builder, condition, io, math, ...).
- org.expasy.jpl.commons.collection Basic collection objects and interfaces.
- org.expasy.jpl.commons.collection.graph Graph objects and algorithms (extended from Jung graph library).
- org.expasy.jpl.commons.collection.render Statistical series and histogram renderers (jfreechart needed).

Supplied by the org.expasy.jpl.commons package.

2. Chemical Data

- Contains models for simple chemical objects like atoms, molecules or amino-acids and more complex one like biological polymers.
- Support modifiable and ionizable molecular groups.
- Provides objects to handle molecules and polymers mass calculator, modification handler, polymer cutter, peptide fragmenter, isoelectric point calculator, ...

Supplied by the org.expasy.jpl.core.mol package.

3. MS data

- Provides Mass Spectrometry objects where a mass spectrum is presented as a peak list. In its simplest form, it contains a list of mass-to-charge values, and optionally an intensity for experimental data and/or annotation(s).
- Provides objects that manipulate spectra like filters, intensity transformers exporters, mergers...

Supplied by the org.expasy.jpl.core.ms package.

4. MS Comparison and Alignment

Provides matchers and scorers for comparison between MS spectra.

Supplied by the msmatch package.

5. IO

Provides readers/writers to import/export biological data and MS data from standards (fasta, mgf, dta, mzxml, mzml, sptxt and msp).

Supplied by the io package.

6. MS-Ident

Provides models for Peptide Spectrum Match (PSM) and Peptide identifications.

Supplied by the msident package.

7. Cross-Platform Solution

- Available as Open Source software under the <u>BSD License</u> which lets you use JPL in both commercial and Open Source programs
- 100%-pure Java

8. Next Features

Here are links to the next (in-development) features for jpl packages:

- Core
- IO
- MS Match
- Tools