

BioRuby updates

- BioRuby 0.6.2 released
 - Sim4, BLAT, Spidey parsers are added
 - Unit tests is being added by Moses Hohman
 - KEGG GLYCAN database is supported
- KEGG API 4.0 released (tested with BioRuby)
 - APIs for LIGAND, GLYCAN, REACTION databases
 - Colored PATHWAY in HTML format is available

What's coming next?

- BioRuby 0.6.3 will be released soon
 - Bug fixes
 - We will not continue to support Ruby 1.6
 - RubyGems for easy installation
 % gem install bioruby
- ChemRuby project started
 - Nobuya Tanaka (KEGG lab.)





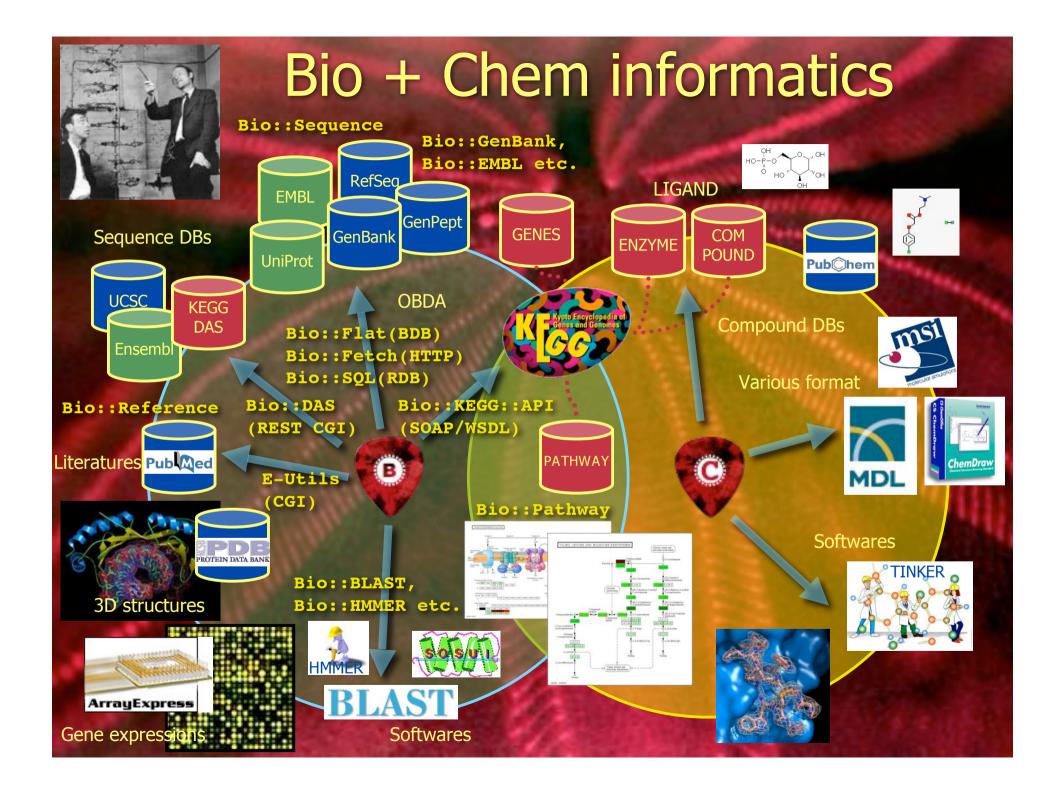
Exploratory Software Project

- 1 year financial support from IPA
 - Infotech Promoting Agency, Japan



- "BioRuby + ChemRuby"
 - 4 core developers
 - documentations, unit tests
 - develop new features
 - integration of these projects

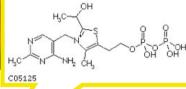
Bio(Chem)RubyHackathon every month!?

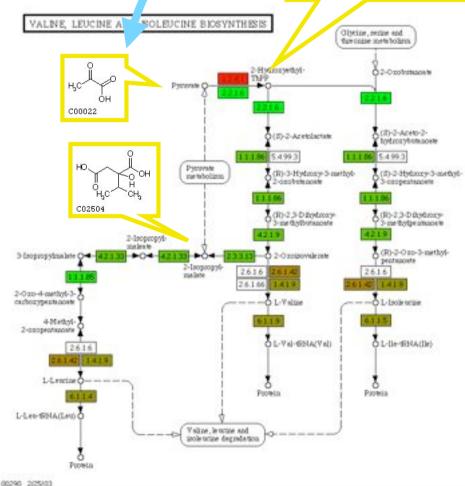


in KEGG lab,

Katayama: developing KEGG API, KEGG DAS etc.
Tanaka: developing algorithms for structure search etc.

ChemRuby







BioRuby + KEGG API

```
korg = "bsu"
serv = Bio::KEGG::API.new
list = serv.list pathways(korg)
list.each do |path|
 pathway = path.entry_id
 fg list = Array.new
 bg list = Array.new
 genes = serv.get genes by pathway(pathway)
 genes.each do | gene |
    fg list << "#000000"
    bg list << exp2rgb(gene)</pre>
                                "#cccccc"
  end
 url = serv.color pathway by objects(pathway,
 serv.save image(url)
end
```

Open Bio Japan

- Promoting Open Bio* in Japan
 - Tutorials, documentations, mailing lists
- Japanese bioinfo developer's meeting
 - G-language, KNOB, BioRuby etc. ..
- http://open-bio.jp/

(http://open-bio.sourceforge.jp/)



