Introduction of the Japanese Open Bio* community

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Objectives

- Propaganda of the international Open Bio* activities
- Promoting and supporting Japanese open source bioinformatics projects
- Getting together bioinformatics developers and users in Japan
Activities

- Workshops
  - Held 7 workshops since 2004
- Tutorials
  - 3 days tutorial at KAST in 2005
- User groups
  - Software developments
  - Documentations
Activities - workshops

The 1st OBJ workshop
SIG meeting of GIW conference in Yokohama, Japan

- 2004/12/13      The 1st OBJ workshop : 15 talks
- 2005/03/11-12  The 2nd OBJ workshop : 5 talks + hands on seminar
- 2005/12/19      The 3rd OBJ workshop : 11 talks
- 2006/03/10-11  The 4th OBJ workshop : 6 talks + hands on seminar
- 2006/10/31      The 5th OBJ workshop : 5 talks + 6 invited tracks
- 2006/12/19      The 6th OBJ workshop : open space style discussion
- 2007/03/2-3     The 7th OBJ workshop : 6 talks + hands on seminar
Activities - user groups

- EMBOSS users group
- BioPerl users group
- Cytoscape users group
Products

- **KNOB**
  - KNOPIX based live CD/DVD containing major bioinformatics software
- **G-language**
  - Genome analysis environment wrapping BioPerl
- **BioRuby / ChemRuby**
  - Bioinformatics / Chemoinformatics library for Ruby language
- **eXpanda**
  - Network analysis and visualization library for Perl
- **E-cell 3D**
  - 3D visualization of the E-cell simulation
- **MedCD**
  - Interactive interface for the PubMed concept dictionary
- **BioFlash**
  - Bioinformatics widgets created with Flash/Flex/ActionScript
http://knob.sourceforge.jp/

Products - KNOB (Knoppix for Bio)

- KNOPPIX based live CD/DVD containing major bioinformatics software

- BioRuby + KEGG
- BioPerl + G-language
- EMBOSS
- BioConductor
- PyMOL
Network analysis and visualization library for Perl

http://medcd.iab.keio.ac.jp/eXpanda/

Products - eXpanda

- Network analysis and visualization library for Perl
Products - MedCD, BioFlash, KEGG on Rails etc.
Future plans

- Focused workshops
  - Visualization special - E-cell 3D, Cytoscape, Virtual reality etc.
  - Web services special - KEGG, DDBJ, PDBj, Taverna, BioMOBY etc.
- Book written by Open Bio Japan developers
  - Introduction to the Open Bio* programming
  - Featuring KNOB, EMBOSS, G-language, BioRuby, BioConductor etc.
Resources

- http://open-bio.jp/
- Hosted at sourceforge.jp
- Workshop slides, photos
- Mailing lists
  - open-bio-info@lists.sourceforge.jp
  - > 70 subscribers

Thank you for your kind attention
Abstract

We have been organizing the Japanese Open Bio* community since 2004 to promote open bio activity in Japan. The group held 7 workshops (sometimes joint co-hosting with JSBi ontology society and JSAI SIG-MBI group) with interesting talks and tutorials on bioinformatics software developed in Japan. Our group also created KNOB, a KNOPPIX based live CD/DVD containing various ready to use bioinformatics software, including BioPerl, BioRuby, BioJava, BioConductor, G-language, EMBOSS, BLAST, ClustalW, HMMER etc. We used this package during our hands-on seminars successfully. In BOSC, I will summarize our activities and introduce several software presented in our workshops.