DBCLS Galaxy: A Galaxy Service to integrate databases in Japan

Atsuko Yamaguchi
Database Center for Life Science Japan
What is DBCLS?

- **DataBase Center for Life Science**, a national center for life science database integration in Japan (since 2007)
- Our mission is to integrate domestic life science databases and to facilitate open access of life science data.
A Problem We Should Solve

- biological data
- lab.1
- lab.2
- lab.n
- data analysis
- major databases
- individual project databases
- Fund expiration
- end-user

Where is data I need? How can I use it?
Proposed Scheme

biological data
major databases (NCBI, EBI, PDBj, DDBJ, KEGG,...)

end-user

DBCLS

Galaxy

TogoDB

TogoWS

Web interface to release DB in 5 min
archive & search
cross search

import/export
authentication
OpenID

lab.1

lab.2

lab.n

biological data

web service

api
integrated web api

major databases (NCBI, EBI, PDBj, DDBJ, KEGG,...)

api

end-user
Our Development

- お持ち帰り (All-in-one package to take out) DBCLS Galaxy
  - bootable image including all softwares to start DBCLS Galaxy automatically.
- adding tools, for example,
  - a tool to connect TogoWS & TogoDB
  - a tool to notify a user when a workflow ends through Twitter
  - a command-line tool to run a workflow
  - text mining tools
  - semantic web tools
- writing documents in Japanese

[Image: DBCLS logo]
Thank you!

DBCLS Galaxy
http://galaxy.dbcls.jp/

TogoWS

Twitter notifier

creeancast in Japanese