GMOD Web API

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Current APIs

- BioMart (Web service)
- InterMine (Web service)
- Chado APIs
 - Hibernate (Java)
 - Ibatis (Java)
 - Class::DBI (Perl)
 - Modware (Perl)
- XORT (XML)
- Others...

Why?

- Various web services are incompatible
 - Different data models
 - Different APIs

Not everyone uses Chado (nor will they)

Current APIs are language or system specific

API Goals

- Simple and lightweight
- URL based
- Language and data model neutral
- Improve high level cross database information exchange
- Versioned URLs for stability

Result Formats

- Result lists (XML and maybe JSON)
- Gene records in Generic Gene Page (GGP)
 XML
- Others?...

Queries

- Full text searches of genes
 - http://flybase.org/gmod/v1/search/fulltext/RNA%20binding
- Ontology terms
 - http://flybase.org/gmod/v1/search/ontology/mitotic%20spindle %20elongation
- Orthologs
 - http://flybase.org/gmod/v1/search/orthologs/WBGene000065
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- Gene record retrieval (GGP XML)
 - http://flybase.org/gmod/v1/fetch/FBgn0026250

What Next?

• Does this make sense?

• Who is interested?