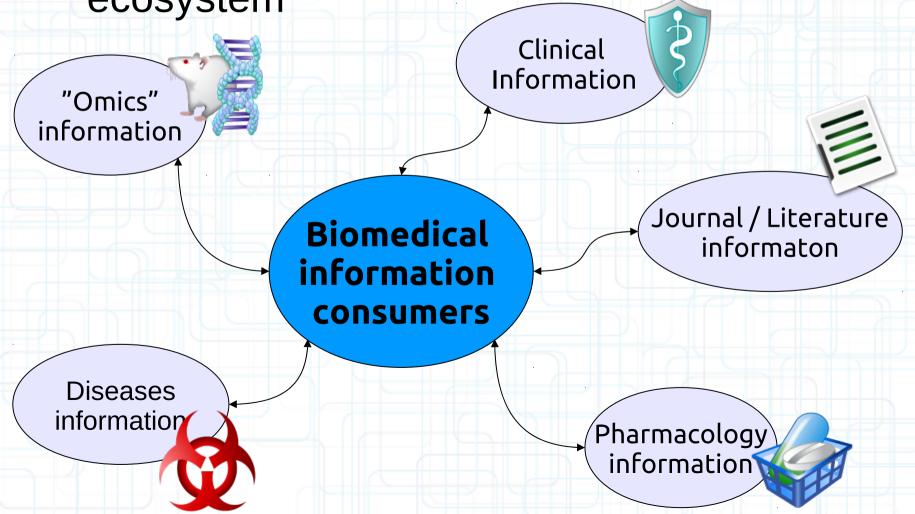


Background

Multiscale biomedical information ecosystem



General goals / requirements

Goals:

- Unique query interface for the whole multiscale biomedical ecosystem
- Automatic integration of biomedical data retrieved from the biomedical ecosystem

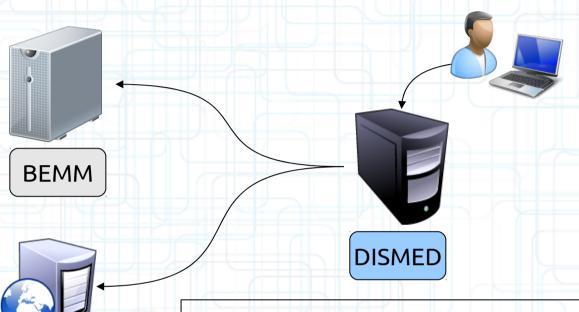
Requirements

- Semantic query based (ontologies)
- SPARQL end point repositories

SPARQL semantic based

- Query based on triplets close to natural language.
- General construction:
 - <u>Subject</u> → <u>Predicate</u> → <u>Object</u>
- Example:
 - Person → <name> → "Peter"
 - Protein → <code> → "CFTR"





Proposal of use-case:

DISEASOME

"Classification of BEMM patient diseases according to cathegories defined in DISEASOME".

"Disease / Diastolic pressure filtering"

DISMED: Distrubuted Semantic MEDiator BEMM: Basic Electronic Medical Management

DISEASOME: Diseases & genes



