

QueryMed

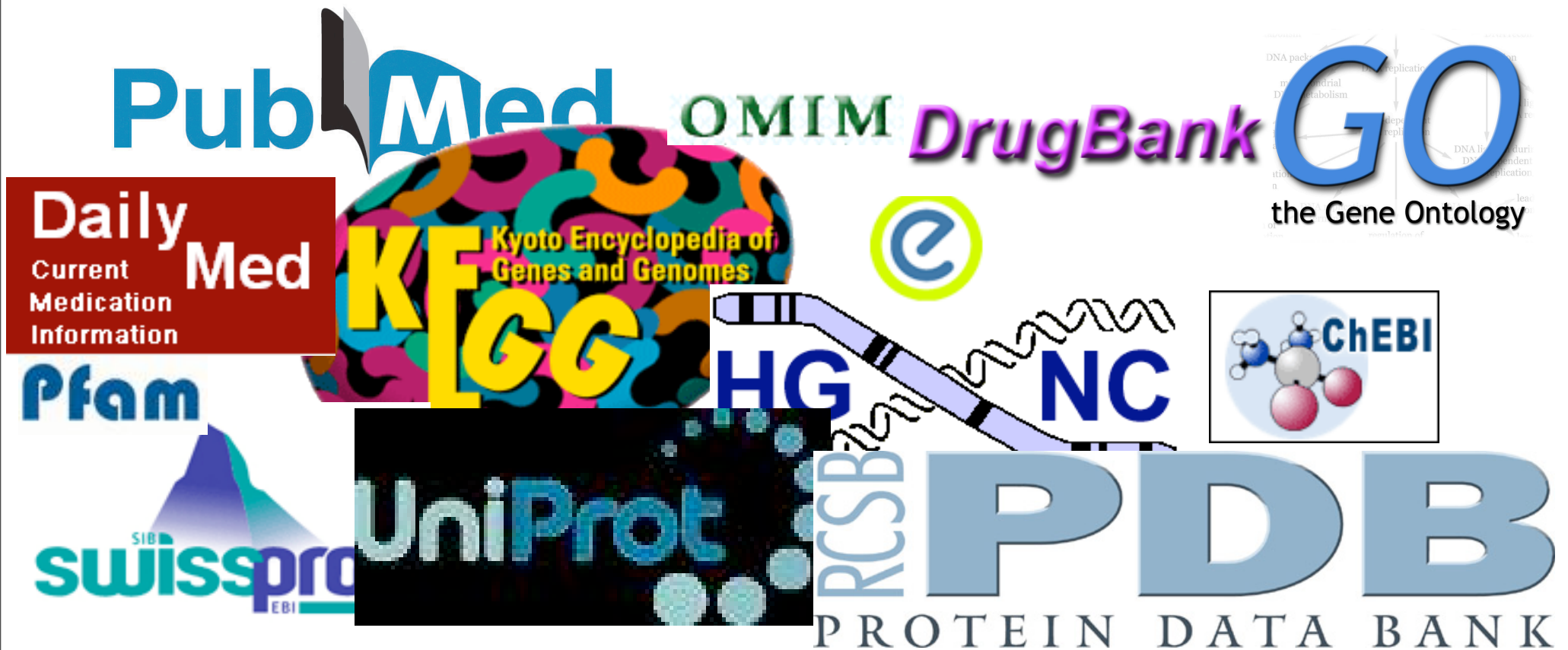
*An Intuitive Federated SPARQL Query
Builder for Biomedical RDF Data*

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Semantic Web: a global DB system

Relational Databases	Semantic Web
record	RDF node
field (column name)	RDF property type
record field (table cell)	value
SQL	SPARQL

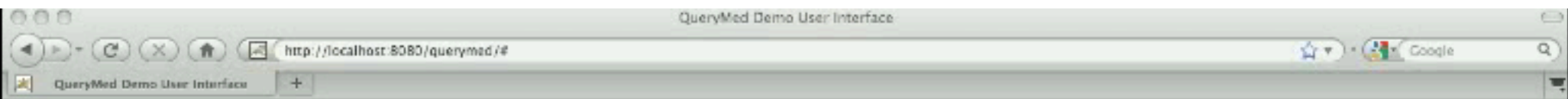
The biomedical domain: an early semantic web success



SPARQL query syntax: non-intuitive for physicians/biologists

```
SELECT distinct ?disease WHERE {  
  { ?x <http://www.w3.org/2000/01/rdf-schema#label> ?disease  
    FILTER regex(?disease, "coronary artery disease", "i"). ?x <http://www4.wiwiss.fu-berlin.de/diseasome/resource/diseasome/class>  
    <http://www4.wiwiss.fu-berlin.de/diseasome/resource/diseaseClass/Cardiovascular> }  
  UNION { ?x <http://www4.wiwiss.fu-berlin.de/diseasome/resource/diseasome/associatedGene>  
    <http://www4.wiwiss.fu-berlin.de/diseasome/resource/genes/ABCA1> . }  
}
```

Solution: QueryMed!



QueryMed

Query Constructor and RDF Data Visualizer for Biomedical Data

Enter a term to query bio-medical data sources for structured information:
(For e.g. You can enter diseases like: coronary artery disease, fever OR drugs like: Tylenol, Isosorbide, etc.)

Query All

Refine Query