

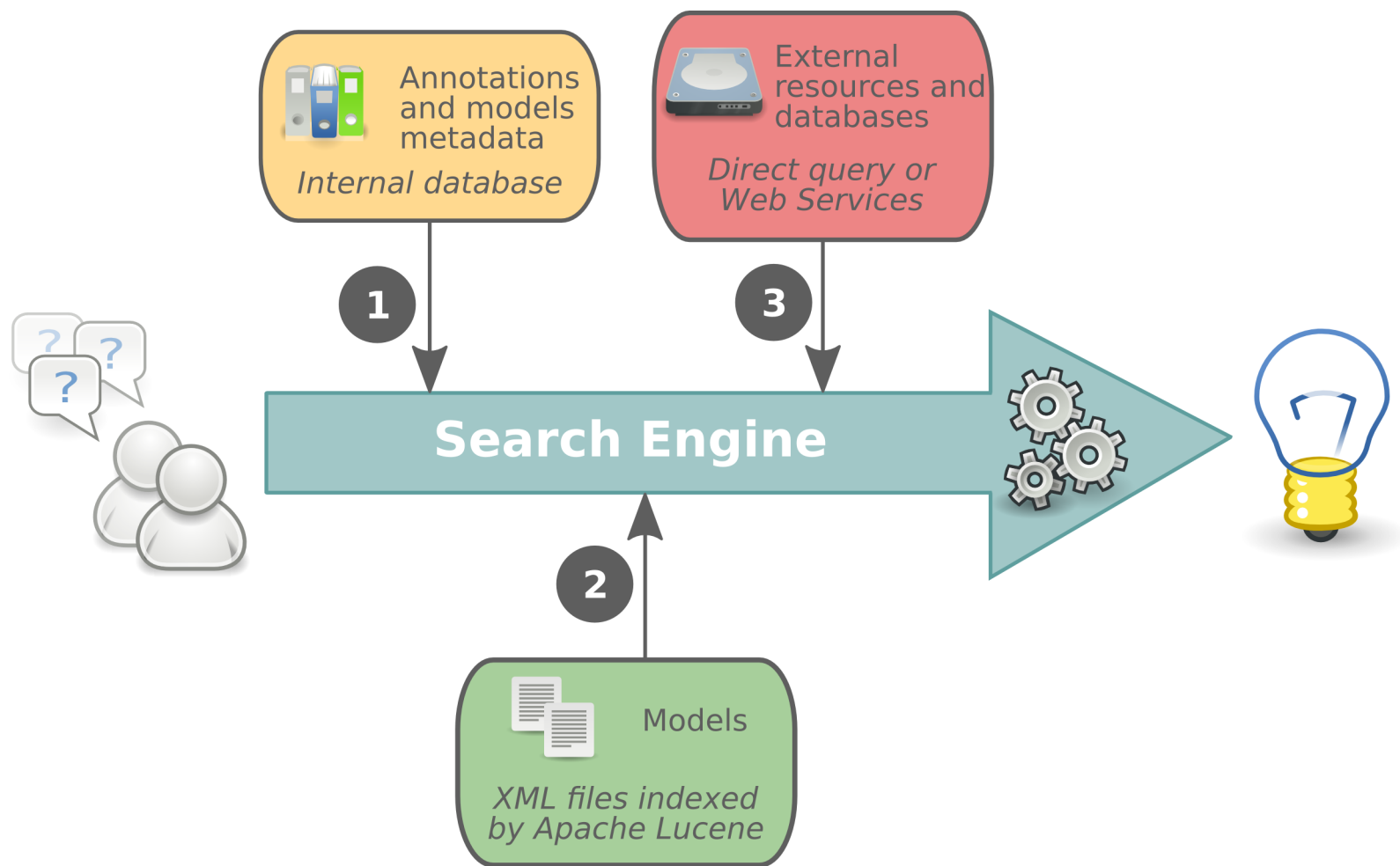
BioModels Database: search and retrieval

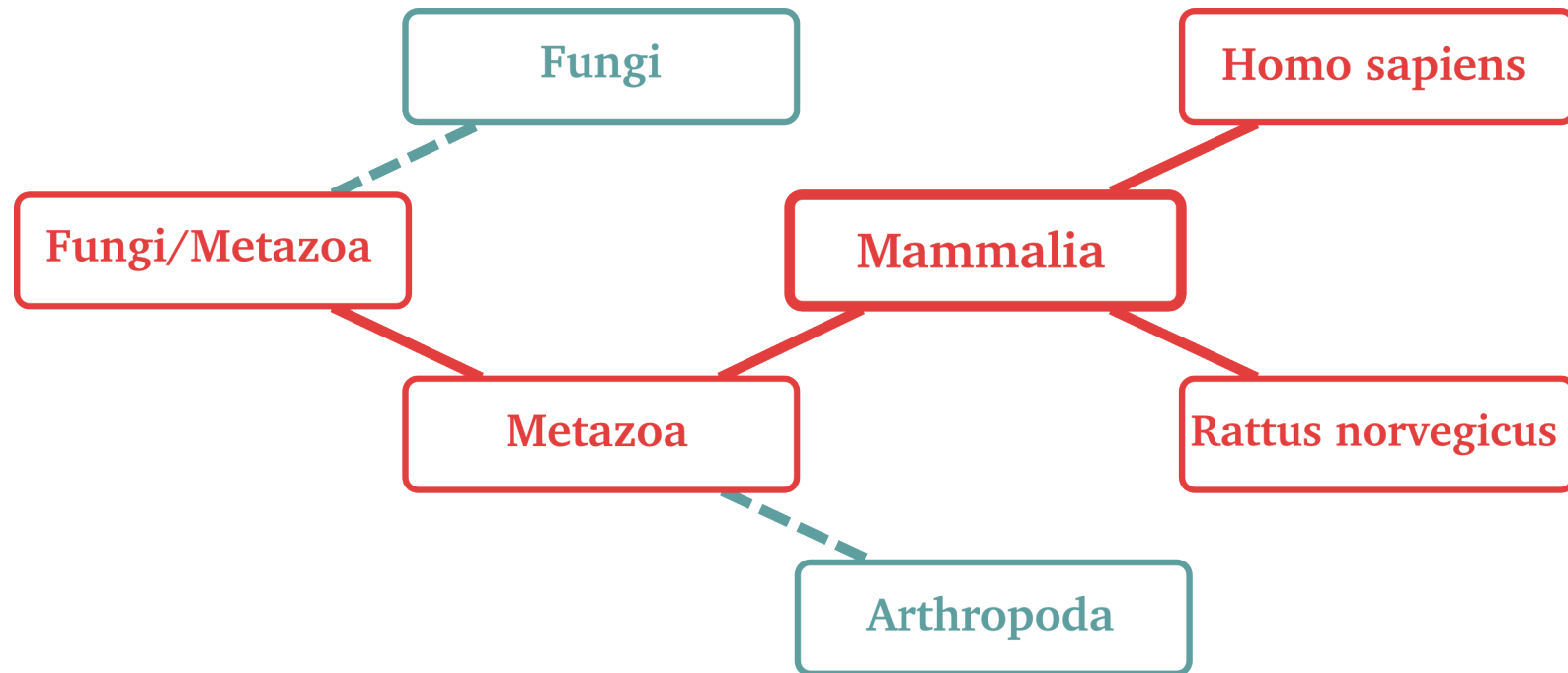
Camille Laibe and Ron Henkel



- Current search methods
 - Text search
 - Advanced search
 - Web Services
- Annotation ranked search
- Planned improvements
- What would you like to see?





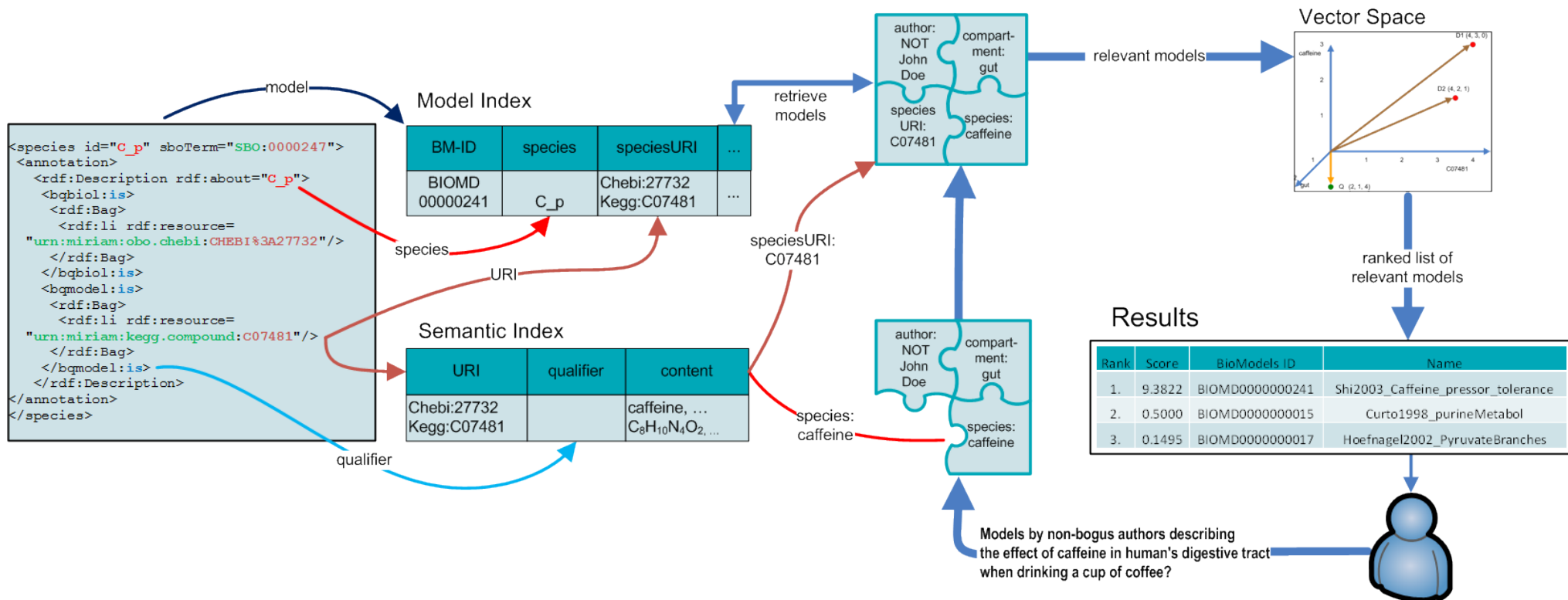


Handling of Taxonomic terms



- GetModelsIdByChEBI
- GetModelsIdByGO
- GetModelsIdByTaxonomy
- GetModelsIdByUniprot
- GetSimpleModelsByReactomeIds
- ...



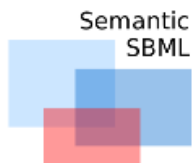


<http://69.91.141.143:8080/biomodels-alpha/>
(on Ron's laptop ;-)



- Annotation based ranked search
- Model comparison
- All ontologies handled the same way as Taxonomy
- ...





semanticSBML 2.0

HOME

REST API

Login

BioModels Similar to MyModel_2010.xml

load graph

Model

Tyson1991_CellCycle_6var

Goldbeter1991_MinMitOscil_ExplInact

Goldbeter1991_MinMitOscil

Novak2001_FissionYeast_CellCycle

Novak1993_M_phase_control

Gardner1998_CellCycle_Goldbeter

Novak1997_CellCycle

Markevich2004_MAPK_phosphoRandomMM

Obeyesekere1999_CellCycle

Goldbeter1995_CircClock

Leloup1999_CircClock

Veening2008_DegU_Regulation

Markevich2004_MAPK_phosphoRandomElementary

Markevich2004_MAPK_AllRandomElementary

Qu2003_CellCycle

Kholodenko2000_MAPK_feedback

Leloup2003_CircClock_LD

Leloup1998_CircClock_LD

Chen2004_CellCycle

Swat2004_Mammalian_G1_S_Transition

Proctor2008_p53_Mdm2_ATM

Markevich2004_MAPK_orderedMM

Markevich2004_MAPK_orderedMM2kinases

Tyson1991_CellCycle_2var

BioModel

Score

Bar Chart

BIOMD0000000005 0.977545249742

BIOMD0000000004 0.700688810538

BIOMD0000000003 0.67320003374

BIOMD0000000111 0.428804139397

BIOMD0000000107 0.419136906599

BIOMD0000000008 0.406867474455

BIOMD0000000007 0.395634035874

BIOMD0000000029 0.297975797661

BIOMD0000000168 0.295600305435

BIOMD0000000016 0.27829463537

BIOMD0000000021 0.261412291121

BIOMD0000000240 0.259982495761

BIOMD0000000028 0.255780957265

BIOMD0000000030 0.255780957265

BIOMD0000000110 0.254495474983

BIOMD0000000010 0.239093711713

BIOMD0000000078 0.230289750301

BIOMD0000000171 0.229794232178

BIOMD0000000056 0.22419461965

BIOMD0000000228 0.222635708296

BIOMD0000000188 0.222544145179

BIOMD0000000027 0.218189048046

BIOMD0000000031 0.218189048046

BIOMD0000000006 0.215566097625

<http://www.semanticsbml.org/>


- What would you like to see?

