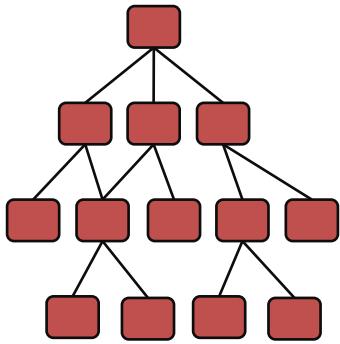


From GRO (Gene regulation ontology) to GRAO (Gene regulation application ontology)

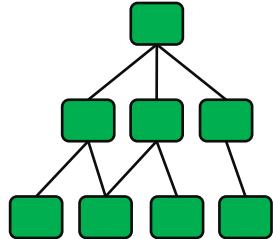
Stefan Schulz, Jose Antonio Vera Ramos

Medical University of Graz, Austria

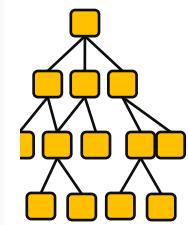
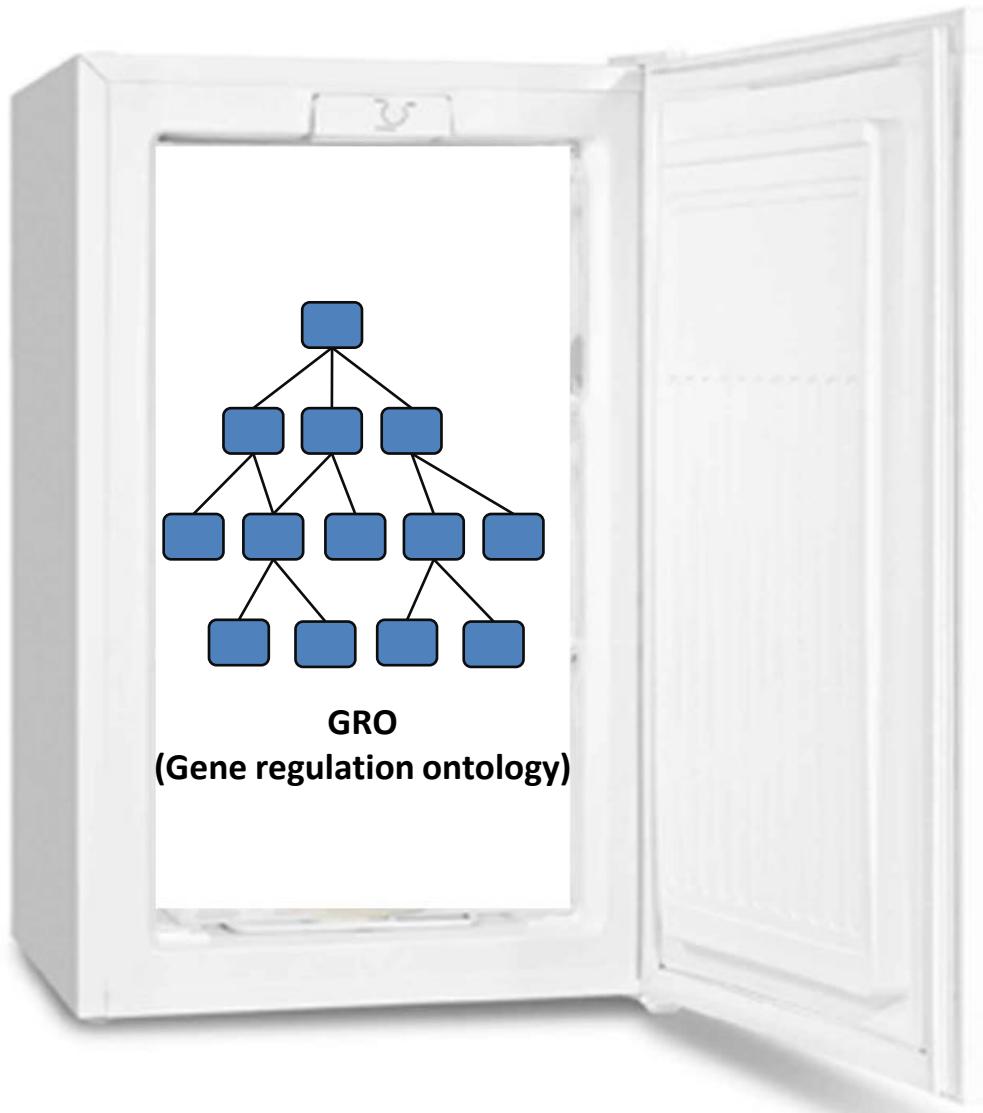
GRO 2008 - 2016



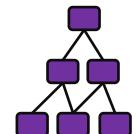
Gene ontology



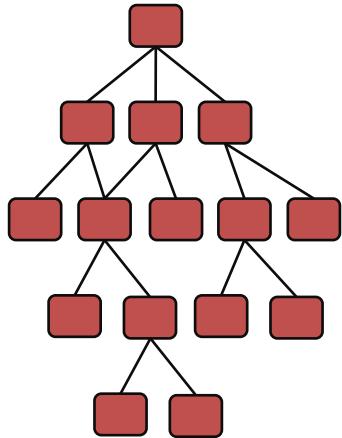
Sequence ontology



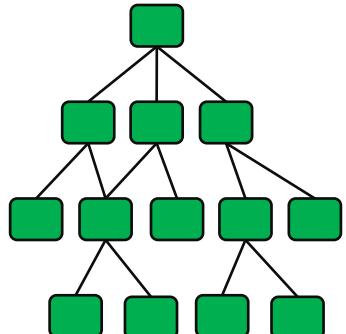
Other
Ontologies



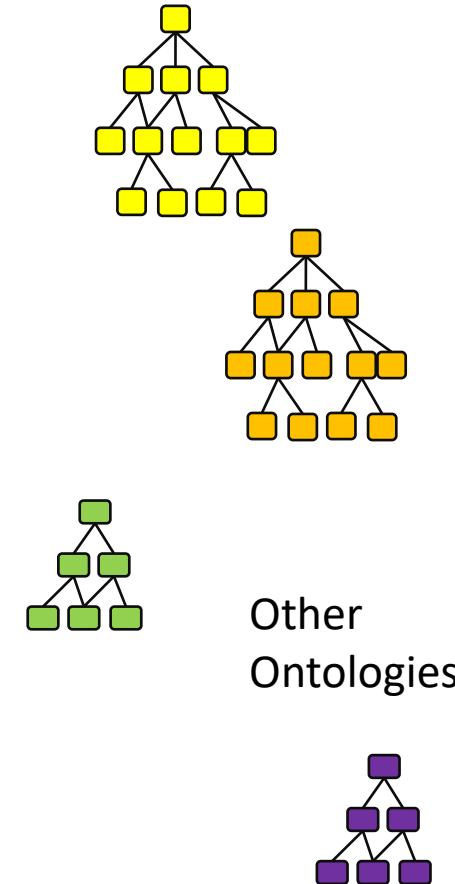
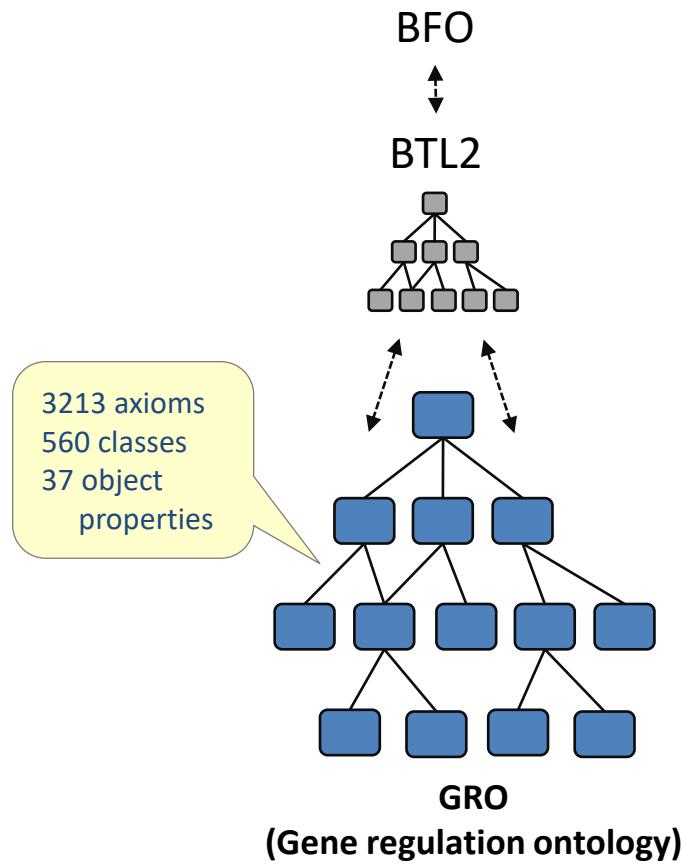
GRO 2017



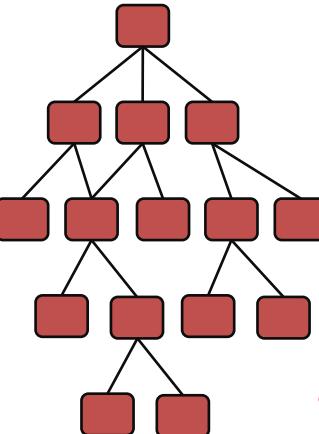
Gene ontology



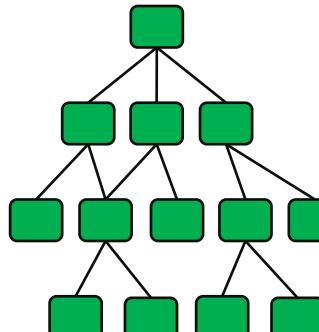
Sequence ontology



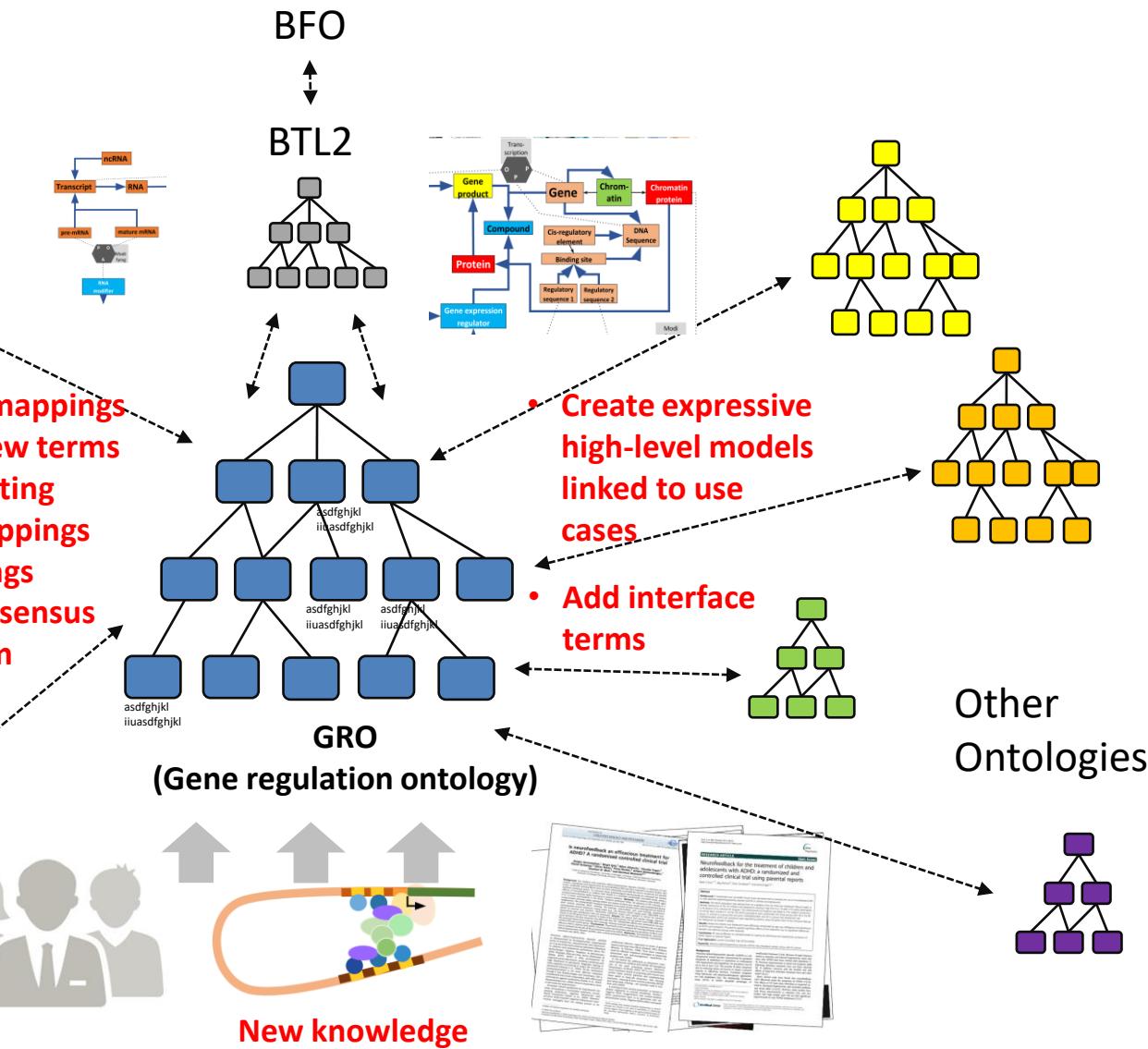
GRO in GREEKC



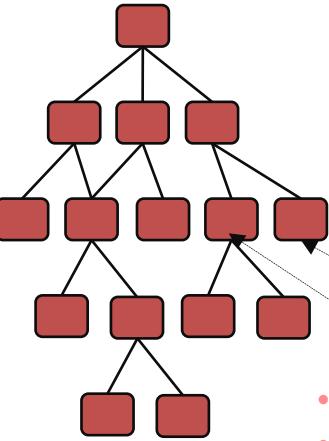
Gene ontology



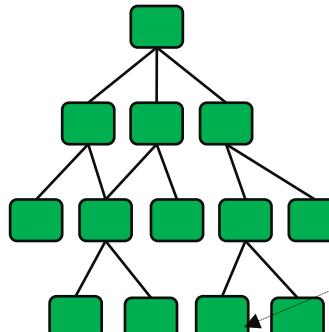
Sequence ontology



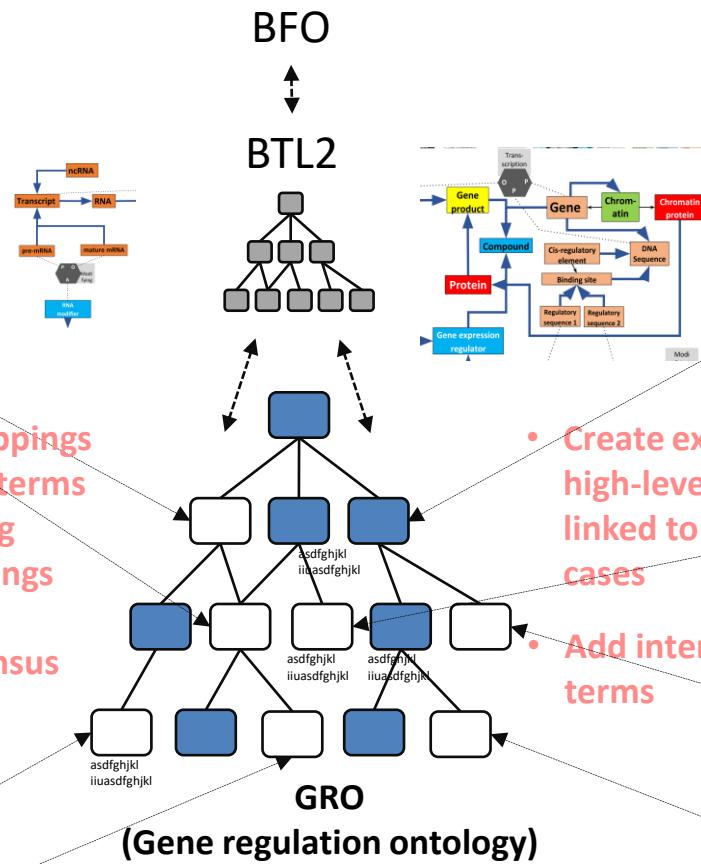
GRO "Deconstruction"



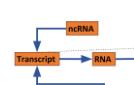
Gene ontology



Sequence ontology



GRO
(Gene regulation ontology)

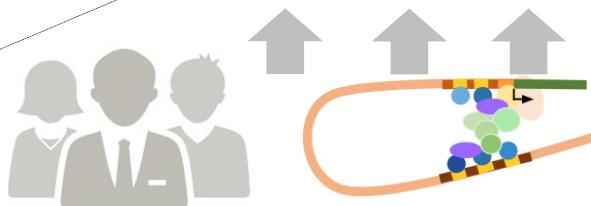


- establish mappings
- request new terms
- revise existing terms, mappings and namings
- create consensus about term defs

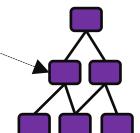
- Create expressive high-level models linked to use cases

- Add interface terms

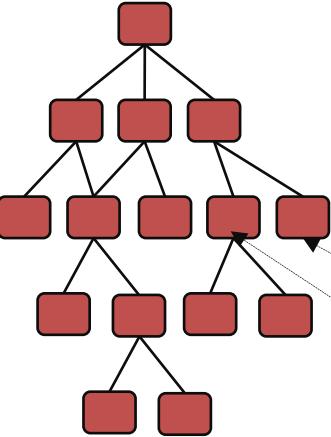
Other
Ontologies



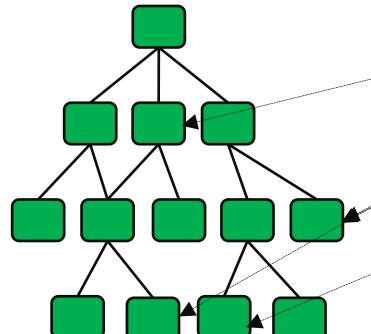
New knowledge



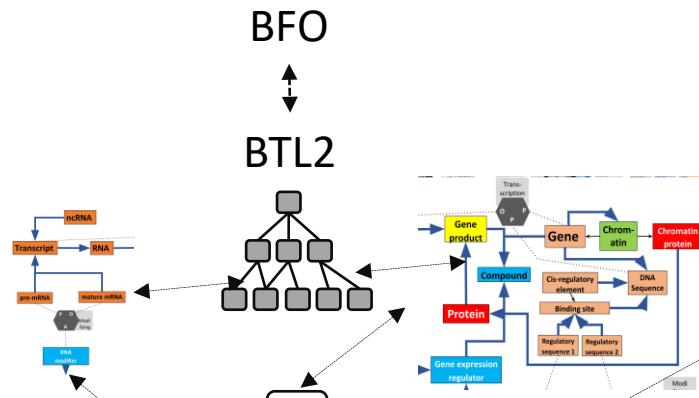
GRAO



Gene ontology



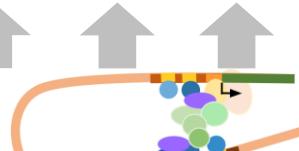
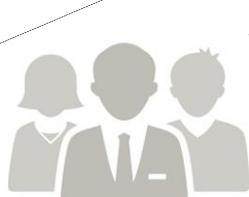
Sequence ontology



BTL2

BFO

Gene regulation application ontology



Observation, maintenance, quality assurance



Other
Ontologies

