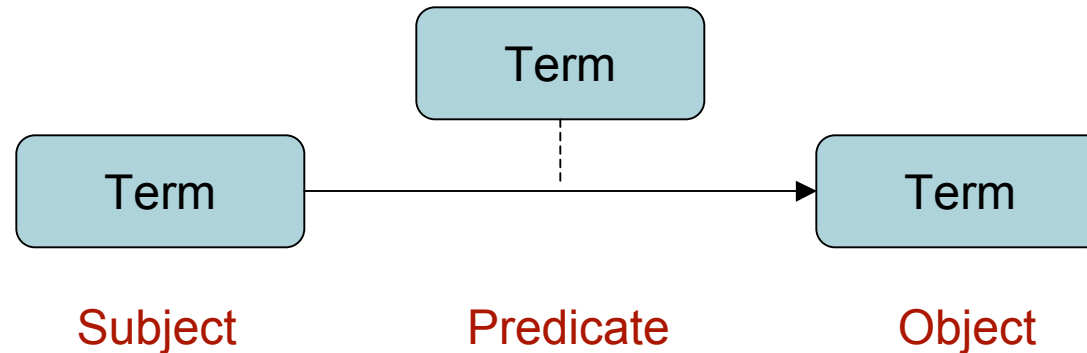


Beyond Ontologies

Frank D. Russo, Ph.D.
WayCraft Biosoftware

ISCB Rocky '06

Metadata-driven Modeling



- Semi-structured, very flexible
- RDF, DAML-OIL, Frame-Slot
- Excellent for classification, and for cataloguing and describing concepts
- GO / OBO, UMLS, many others

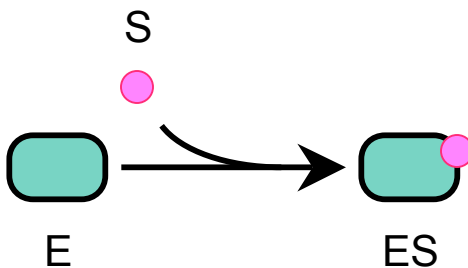
More Than a Name

“We need a theoretical framework in which to embed biological data so that the endless stream of data, filled with the flotsam and jetsam of evolution, can be sifted and abstracted.”

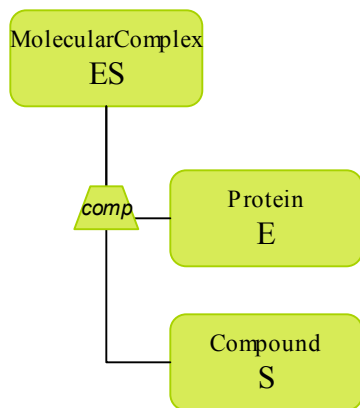
Sidney Brenner
The Scientist, 16[6]:12, Mar 18th, 2002

Implicit Objects and Relationships

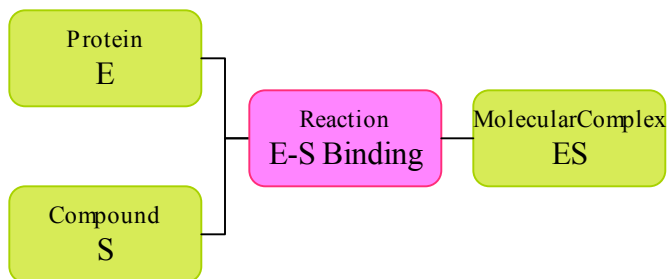
A biologist writes:



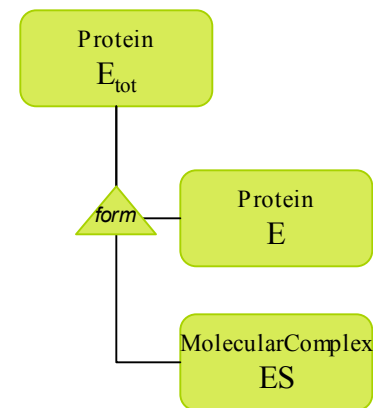
... and implies:



Composition

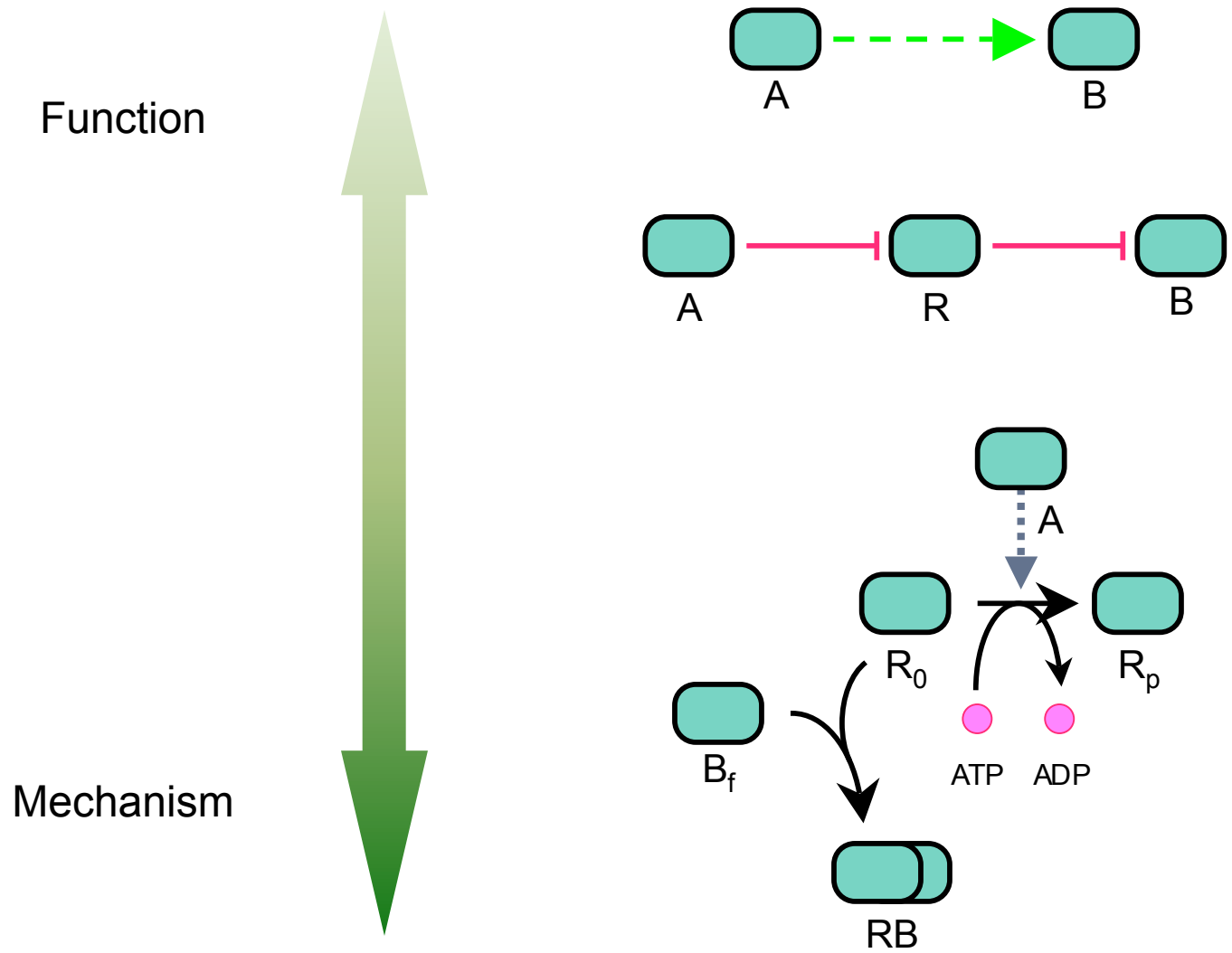


Process



Generalization

Levels of Abstraction



Disease Cards Application

