Gene Regulation Event Corpus (GREC)

- 240 MEDLINE abstracts
- identified 3067 events
  - verbs or nominalized verbs
- Arguments labeled with:
  - semantic roles
  - biological concept types
- Created to train IE systems

Semantic roles

- AGENT
- THEME
- MANNER
- INSTRUMENT
- LOCATION
- SOURCE
- DESTINATION
- RATE

- TEMPORAL
- CONDITION
- PURPOSE
- DESCRIPTIVE-AGENT
- DESCRIPTIVE-THEME

Biological concepts

Chosen from five hierarchies:
- Nucleic_Acids
- Proteins
- Living_Systems
- Processes
- Experimental

Event example

In E. Coli, glnAP2 may be **activated** by NifA.

Argument	Semantic role	Biological concept
In E. Coli	LOCATION	Wild_type_bacteria
glnAP2	THEME	Gene
NifA	AGENT	Activator