NCBO-Galaxy: bridging the BioPortal web services and the Galaxy platform

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NCBO-Galaxy tools

- Access ontologies tools:
  - Get ontology by its identifier.
  - Extract a branch from an ontology.
  - Get a concrete view of an ontology.

- Annotator tool:
  - Annotate a text with bio-ontology terms.

- Ontology Recommender tool:
  - Recommend a bio-ontology depending on annotations of a text.

- Search tools:
  - Search for terms in bio-ontologies depending on the text provided.
  - Search for resources matched up with terms in bio-ontologies.
Software demo

• NCBO services:
  ▫ Search for resources matched up with terms in bio-ontologies:
    • Text: “Prostate cancer”
    • Text: “Cell carcinoma”

• Text Manipulation:
  ▫ Cut columns from a table.

• Join, subtract and Group:
  ▫ Compare two Datasets to find common or distinct rows.
Software demo

### Galaxy Tools

**NCBO services**
- **Get ontology by id** Retrieves an ontology from bioportal using its id
- **Extract a branch from an ontology** Retrieves a subtree from an ontology using a root concept
- **Get a concrete view of an ontology** Retrieves a view of an ontology using the view id
- **Annotates a text with bio-ontology terms** Annotates biological texts with the terms of the bio-ontologies from BioPortal
- **Recommends a bio-ontology depending on annotations of a text** Provides a bio-ontology as a recommendation depending on the annotations from a biological text
- **Search for terms in bio-ontologies depending on the text provided** Search for terms in bio-ontologies depending on the text provided
- **Search for resources matched up with terms in bio-ontologies depending on the given text** Search for resources matched up with

### History

277.0 Kb

- **25: Compare two Datasets on data 23 and data 24**
- **24: Cut on data 21**
- **23: Cut on data 22**
- **22: Search for resources matched up with terms in bio-ontologies depending on the given text**
- **21: Search for resources matched up with terms in bio-ontologies depending on the given text**