

The Biomedical Ontology Applications (BOA) framework

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Abstract. The Biomedical Ontology Applications (BOA) framework consists of a set of web applications that aim at an effective exploration of biological information and knowledge discovery using Biomedical Ontologies. This paper presents three web applications: ProteInOn for semantic similarity and protein set characterization based on Gene Ontology (GO); CMPSim for semantic similarity of chemical compounds and metabolic pathways using the Chemical Entities of Biological Interest ontology (ChEBI); and GRYFUN for the visualization, filtering and analysis of GO functional annotation profiles of a given protein family. The web tools and their documentation, including videos, are freely available at <http://xldb.di.fc.ul.pt/wiki/BOA>

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