Top 5 Ontologies in BioPortal, ranked by most ontology classes:

1. National Center for Biotechnology Information (NCBI) Organismal Classification (NCBITAXON)
   1. The ontology is used for taxonomy classification. It is a taxonomy database that is used for classification and nomenclature for all organisms. It has 3 properties, DIV, RANK, and Semantic type UMLS property. DIV indicates which phylum a class or subclass belong to. Rank tells us which taxonomy rank a class or subclass belong to. The average children of a class are 11, and the maximum number is 43,704.
2. The Prescription of Drugs Ontology (PDRO)
   1. The ontology aims at representing the domain of drug prescriptions. The current use cases are refining for prospectively standardizing local electronic prescriptions, and annotating prescription data of differing EHRs for detecting inappropriate prescriptions. There are 377 properties and 553 individuals for this ontology. There are 19 children in each class on average, and the maximum number of children is 565,359.
3. Gazetteer (GAZ)
   1. The domain of the ontology is environment. Its aim is to store and organize the location information for places in different part of the world. There are 15 properties for this ontology. Interestingly, according to BioPortal, there is no children in any of the classes.
4. The Drug Ontology (DRON)
   1. The ontology’s domain is health and human. This ontology primarily support comparative effectiveness for researchers who need to query drugs by ingredient, mechanism of action, physiological effect, and therapeutic target. This ontology also does not have any children in all classes. There are 125 properties and 20 individuals for this ontology.
5. Biological and Environmental Research Ontology (BERO)
   1. This ontology’s domain is in both biology and environment. It is an application ontology that combines many other ontologies for studying biological and environmental phenotypes together. It has 302 properties and 299 individuals. In addition, it has 7 children in each class on average, and the maximum number of children is 9,432.