Synospecies

Synospecies is a tool to explore the history of taxonomic names, and related taxonomic treatments and figures by finding not just the currently accepted name but also its original combination or synonyms. Synospecies is based on Linked Data standards and uses an AllegroGraph triple store provided by Franz inc. This database contains facts extracted from taxonomic treatments, and it reflects parts of the history of a name. Over the entire dataset, Synospecies represents the entire catalogue of life.

Synospecies is far from complete, but it already demonstrates the potential of the data liberated from publications. Its basic version allows searching for the synonym history starting with a taxonomic name. In an advanced version, users are given the opportunity to build their own custom queries using SPARQL, a data query language for triple stores.

https://synospecies.plazi.org/

OpenBiodiv

OpenBiodiv is a semantic ecosystem, comprised of a knowledge graph and Linked Open Dataset, an ontology (OpenBiodiv-O) and website (openbiodiv.net). OpenBiodiv gathers biodiverity knowledge extracted from semantically enhanced taxonomic articles published by Pensoft and taxonomic treatments published by Plazi and exposes the links between and within articles and their content. The knowledge graph contains semantic statements about authors, articles, treatments, taxonomic names, examined materials, institutions, genomic sequences, habitats, localities and more. It has a SPARQL endpoint (graph.openbiodiv.net) where experienced users can write complex queries. The website is currently undergoing re-development to enable a better user experience and to help accomplish the aim of OpenBiodiv: to make biodiversity knowledge easily findable and accessible both by humans and machines.