

IRI translation for SPARQL using identifiers.org

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ABSTRACT

Motivation: On the semantic web and in life science data in particular there are many sources of information (documents available via http) about unique resources. Each of these sources is likely to use their own IRI as an identifier for conceptually the same resource or database record. For example <http://identifiers.org/uniprot/P05067> and <http://purl.uniprot.org/uniprot/P05067> are both identifiers for the UniProtKB database record a unique resource. This multitude of identifiers introduce a barrier when executing federated SPARQL queries between different databases.

Results: We introduce a virtual SPARQL endpoint that uses identifiers.org knowledge about IRI patterns to automatically translate identifiers in one IRI pattern to another, making cross database querying easier and more robust. This endpoint supports the full SPARQL 1.1.

Availability: This IRI translating endpoint is available at <http://identifiers.org/spargolmapping> and is free to use.

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1 INTRODUCTION

The use of RDF to model and SPARQL to query data is becoming more common in the life sciences Jupp *et al.* (2014)

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2 APPROACH

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3 METHODS

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*to whom correspondence should be addressed

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1. this is item, use enumerate
2. this is item, use enumerate
3. this is item, use enumerate

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REFERENCES

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