

Propositions accompanying the thesis

Improving the Interoperability of Biomedical Research Data

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1. Providing human-oriented guidance on research data management practices is essential but requires decision-makers to first decide on what these practices are. (*this thesis, chapter 2*)
2. Providing tangible examples of FAIR data helps anyone who wants to implement FAIR to better understand the meaning of the principles. (*this thesis, chapter 3*)
3. Making data FAIR is a continuous process that is most effectively approached stepwise while asking the right questions at each stage. (*this thesis, chapters 2 and 3*)
4. Ontology matching systems reduce the manual labor involved in finding correct mappings between overlapping ontologies. (*this thesis, chapters 4 and 5*)
5. The quality assurance of biomedical terminology systems benefits from leveraging the rich lexical content embedded in the labels of these systems. (*this thesis, chapter 6*)
6. Defining structured and descriptive metadata for biomedical research data should be a priority. (*this thesis, chapter 7*)
7. Interoperability is much more a people problem than it is a technical problem.
8. "No matter how many times the results of experiments agree with some theory, you can never be sure that the next time the result will not contradict the theory." (*Stephen Hawking, A Brief History of Time*)