

Title:

A Process Ontology for Cell Biology: Ontology development and tool support.

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Abstract: The Rapid Knowledge Formation (RFK) project aims to develop tools to enable expert biologists to construct an ontology, and enter their knowledge directly into a Knowledge-Based System. The DARPA-funded program includes the capture of the spatio-temporal dynamics of cellular processes in its coverage of the domain. The Cyc system (Lenat) is being used by one team, and this poster will report on the contribution of the Artificial Intelligence Applications Institute to process modelling in Cyc. The general concept of a script as a composition of scenes is explored, with due account being taken of the specific nature of the domain. The ability to support deeper reasoning about the conditions and effects of actions is an important component of our ontology. We shall also report on the tools being produced in the program more widely.