The Colorado OpenDMAP system
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An ontology-driven integrated concept recognition system with proven applicability to biomedical information extraction problems.

Cyclin E2 interacts with Cdk2 in a functional kinase complex.

OpenDMAP

freetext

ontology

patterns

extracted information

protein protein interaction:
interactor1: cyclin E2
interactor2: cdk2

PROTÉGÉ ONTOLOGY
CLASS: protein protein interaction
SLOT: interactor1
TYPE: molecule
SLOT: interactor2
TYPE: molecule

PATTERNS
{c-interact} := [interactor1] interacts with [interactor2]
{c-interact} := [interactor1] is bound by [interactor2]
...

ontology

patterns