

PubAnnotation

文献アノテーション支援 ツール・レポジトリ

<http://pubannotation.dbcls.jp>
(alpha version)

金進東 (DBCLS)



文献アノテーションの例

TextAE (source: <http://localhost:3000/annsets/bionlp-st-ge-2013-sample/pmcdocs/2626671/divs/1/annotations.json>)

Span Types

- Sentence
- Anaphora
- Protein
- Entity
- Binding
- Localization
- Gene_expression
- Transcription
- Phosphorylation
- Regulation
- Positive_regulation
- Negative_regulation

Relation Types

- themeOf
- causeOf
- coreferenceOf
- equivalentTo
- partOf

Although Runx3 is not expressed in naive CD4+T cells, its expression is up-regulated during Th1 cell differentiation, and Runx3 influences Th1 cell differentiation and function through direct regulation of the Il4 and Ifng cytokine genes (15,16).

In contrast, all three Runx proteins are expressed in mature CD8+T cells (10,12), and Runx3-deficient CD8+T cells show reduced cytolytic activity (12,13).

Features

- Storage
 - ✓ Scalable
 - RDBMS
 - ✓ Sharable
 - Encoding-conversion, annotation alignment
 - standoff, XML, JSON, RDF
- Annotation platform

Features

- Storage
- Annotation platform
 - ✓ Annotation-ready texts
 - ✓ TextAE - annotation editor
 - ✓ Community Sourcing Annotation Framework
 - ✓ Ontology-based annotator

Annotation alignment

In PubAnnotation

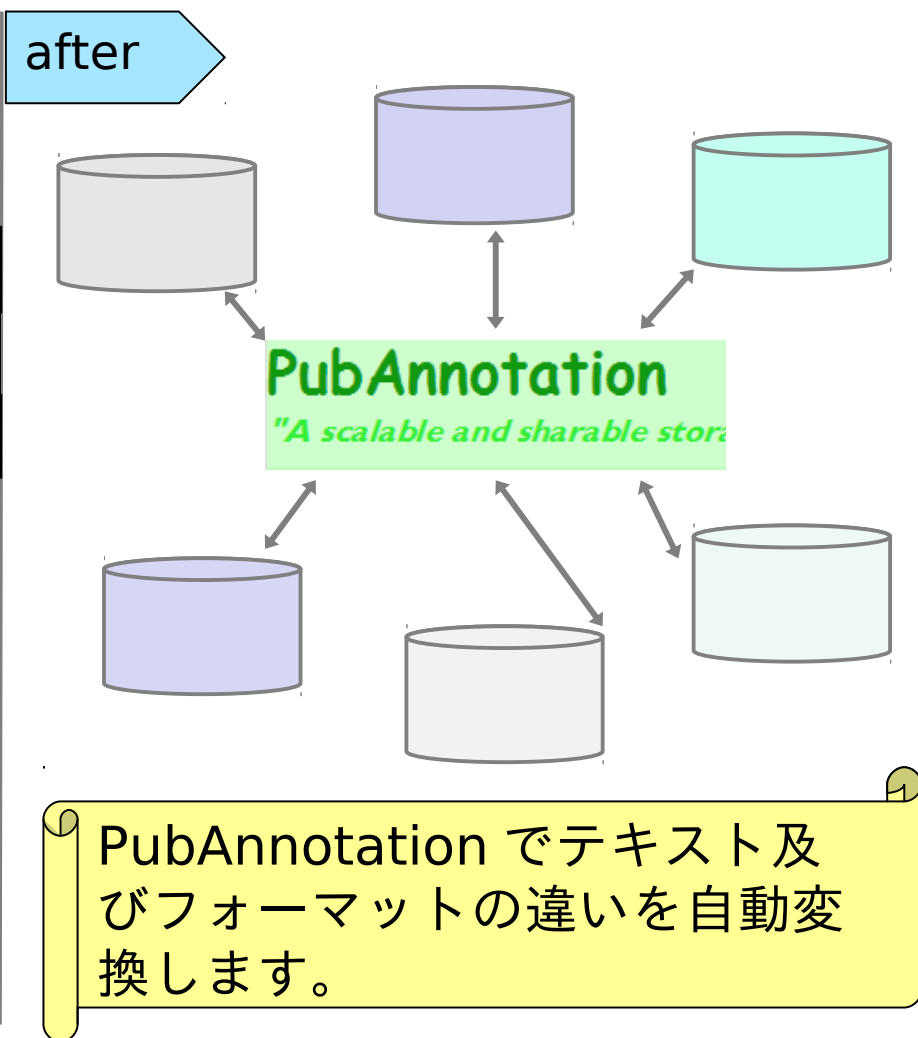
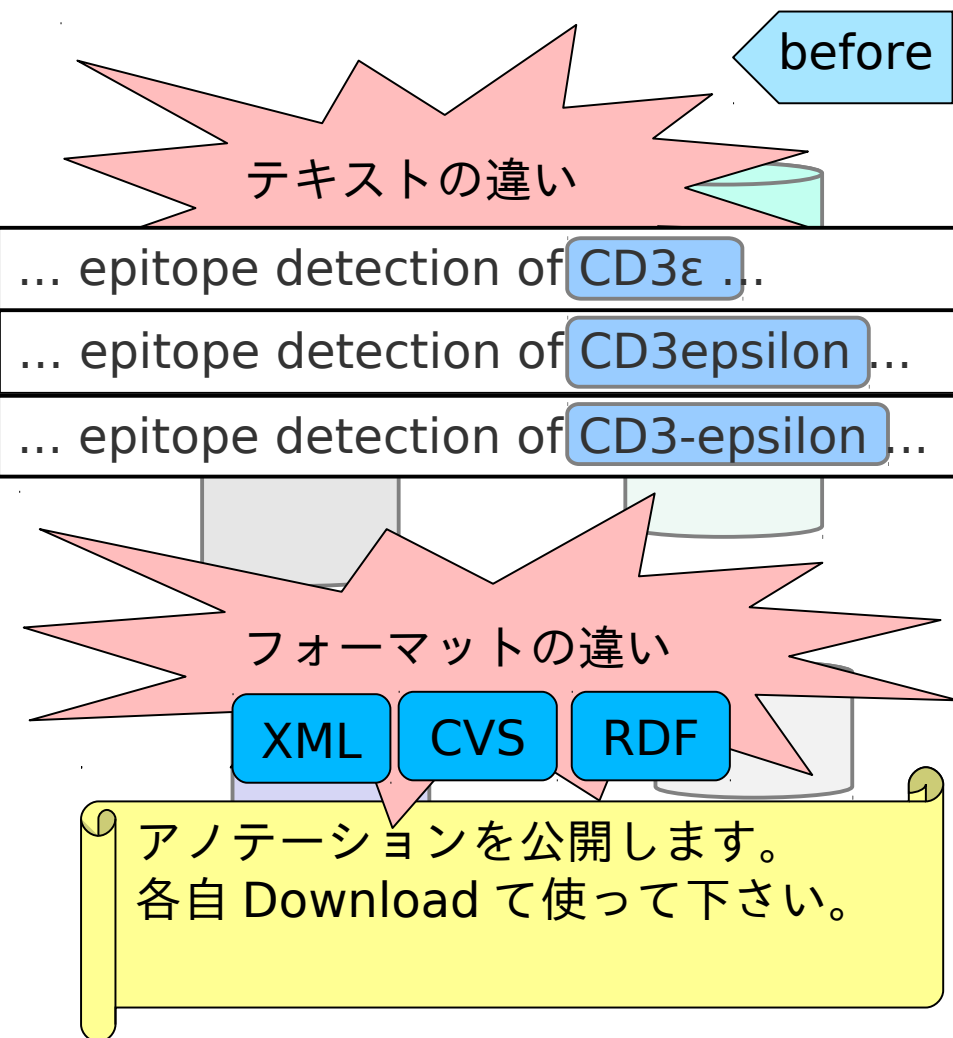
Annotation alignment

... the epitope detection of CD3 ϵ , CD4 ...

Annotation submission

In a local storage

... the epitope detection of CD3ε, CD4 ...



PubAnnotation

- 役割
 - ✓ Hub repository of literature annotation
- 機能
 - ✓ Storage
 - ✓ Conversion
 - ✓ Normalization
 - ✓ Visualization/editor
 - ✓ Connection to external tools
- システムデモ
 - ✓ <http://pubannotation.dbcls.jp>