

19th International Conference on Genome Informatics

BIOLISM – SEARCHING AND MINING BIO-LITERATURES

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Five Major Bio-Literature Mining Tasks

- In the last 15 years, numerous approaches are proposed for:
 - Named Entity Recognition
 - Abbreviation Extraction
 - Relationship Extraction
 - Literature Classification
 - Hypothesis Generation

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A Short Summary

- After 15 years, what we have seen are:
 1. Only traditional search engine is a tool of biomedical scientists
 - Only searching (information retrieval).
 - No mining.
 2. None of the text mining tools is part of the standard tools of the biomedical scientists
 - Yet, there are plenty of text mining tools
 - Even some of them may need improvements, some of them seems well-developed

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Biolism – A Prototype System

- We propose a system called Biolism:
 - Biolism (**B**io-literatures – **S**earching and **M**ining)
 - A system for searching and mining bio-literatures.
 - Expect early 2010 finish a prototype system

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Major GUI (For more information, refer to the paper)

The screenshot displays a complex web interface for literature search and analysis. It is organized into several main sections:

- B1 and B2:** Lists of search results. Each entry includes a title, authors, and a brief description or journal information.
- C1, C2, and C3:** Abstracts of selected articles. Each abstract is accompanied by a small thumbnail image and a title.
- D1 and D2:** Ranked lists of articles. Each list has a header with 'Sort By', 'Name', 'Popularity', and 'Relevance'. The lists contain numbered entries with titles and authors.

The interface also features a search bar at the top, navigation tabs, and various interactive elements like 'Add to My Favorites' and 'Download This Article'.