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Openness: Trade, Tools, and Transparency

Emerging tools for data and textmining Session

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Title:

Integration of biomedical literature and databases

Abstract:

The vast amount of biomedical abstracts available from a single source, Medline, has become an important breeding ground for the development of new methods for mining the scientific literature. Although, to most biologists, hands-on literature mining currently means a keyword search in PubMed, methods for identifying biomedical entities and extracting biomedical facts from the scientific literature have improved considerably. Many researchers will likely soon use literature-mining tools to augment scientific papers with relevant data from public databases or to interpret the results from high-throughput experiments. Owing to the increasing body of text, literature mining is also becoming useful for automatic hypothesis generation and thus for driving biological discovery. To realize the full potential of such methods, however, they will need access to full-text papers, rather than just the abstracts, for which reason open-access publishing will play an important role for the future of literature mining.

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