



# Searching Biomedical Information Approaches and Challenges



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## Abstract

Despite the availability of a large number of biomedical documents on the web, it is not obvious for an end user to find relevant information related to a health condition, a diagnosis or a treatment. A key problem is mismatch due to the fact that a concept can be described in many different ways (e.g. headache, pain in head, cephalalgia, migraine, etc.). Extensive studies have been made, ranging from word matching to concept matching. In this talk, I will describe the various approaches used for biomedical information retrieval. Experimental results show that a flexible approach based on concepts is preferred to a strict concept-based approach. Despite the progress made in research, tremendous challenges still remain, especially for non-specialist users. For example, the trustfulness of information will be essential for biomedical information retrieval. I will touch on some of these challenges.

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