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Title (English) Automated protein-family classification based on hidden Markov models		
Title (Swedish)		
Abstract <p>The aim of the project presented in this paper was to investigate the possibility to automatically sub-classify the superfamily of Short-chain Dehydrogenase/Reductases (SDR). This was done based on an algorithm previously designed to sub-classify the superfamily of Medium-chain Dehydrogenase/Reductases (MDR). While the SDR-family is interesting and important to sub-classify there was also a focus on making the process as automatic as possible so that future families also can be classified using the same methods.</p> <p>To validate the results generated it was compared to previous sub-classifications done on the SDR-family. The results proved promising and the work conducted here can be seen as a good initial part of a more comprehensive full investigation</p>		
Keywords Hidden Markov model, sequence identity, cluster, automatic clustering		
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