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Title:	CSmetaPred: A consensus method for prediction of catalytic residues
Authors:	Choudhary, Preeti (/jspui/browse?type=author&value=Choudhary%2C+Preeti) Kumar, Shailesh (/jspui/browse?type=author&value=Kumar%2C+Shailesh) Bachhawat, A.K. (/jspui/browse?type=author&value=Bachhawat%2C+A.K.) Pandit, Shashi Bhushan (/jspui/browse?type=author&value=Pandit%2C+Shashi+Bhushan)
Keywords:	catalytic residues enzyme catalytic residues
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Abstract:	Knowledge of catalytic residues can play an essential role in elucidating mechanistic details of an enzyme. However, experimental identification of catalytic residues is a tedious and time-consuming task, which can be expedited by computational predictions. Despite significant development in active-site prediction methods, one of the remaining issues is ranked positions of putative catalytic residues among all ranked residues. In order to improve ranking of catalytic residues and their prediction accuracy, we have developed a meta-approach based method CSMetaPred. In this approach, residues are ranked based on the mean of normalized residue scores derived from four well-known catalytic residue predictors. The mean residue score of CSMetaPred is combined with predicted pocket information to improve prediction performance in meta-predictor, CSMetaPred_poc.
URI:	https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-017-1987-z (https://bmcbioinformatics.biomedcentral.com/articles/10.1186/s12859-017-1987-z) http://hdl.handle.net/123456789/1677 (http://hdl.handle.net/123456789/1677)
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