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Mining Protein Phosphorylation information from Biomedical Literature using NLP Parsing and Support Vector Machines

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Highlights

- Protein phosphorylation information plays an essential role in numerous biological processes including cellular functions and signal transduction
- A text mining methodology which consists of two phases NLP parsing and SVM classification to extract phosphorylation information from literature is presented in this study
- Three base forms and ten sub forms were used depending on the presence entities (substrate, kinase and site) and phosphorylation keyword.
- Three datasets were used for testing the performance of the proposed methodology.

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