

## Accepted Manuscript

Prediction of protein subcellular localization with oversampling approach and Chou's general PseAAC

Shengli Zhang , Xin Duan

PII: S0022-5193(17)30499-X  
DOI: [10.1016/j.jtbi.2017.10.030](https://doi.org/10.1016/j.jtbi.2017.10.030)  
Reference: YJTBI 9254



To appear in: *Journal of Theoretical Biology*

Received date: 5 August 2017  
Revised date: 29 September 2017  
Accepted date: 27 October 2017

Please cite this article as: Shengli Zhang , Xin Duan , Prediction of protein subcellular localization with oversampling approach and Chou's general PseAAC, *Journal of Theoretical Biology* (2017), doi: [10.1016/j.jtbi.2017.10.030](https://doi.org/10.1016/j.jtbi.2017.10.030)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- We combined oversampling method with SVM to deal with the protein subcellular localization of unbalanced data sets.
- Results of SVM by Jackknife tests show that oversampling methods have successfully decrease the imbalance of data sets.
- The excellent overall accuracy indicates that the feature representation and selection capture useful information of protein sequence.

Download English Version:

<https://daneshyari.com/en/article/8876932>

Download Persian Version:

<https://daneshyari.com/article/8876932>

[Daneshyari.com](https://daneshyari.com)