

Accepted Manuscript

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PII: S1532-0464(17)30055-2
DOI: <http://dx.doi.org/10.1016/j.jbi.2017.03.006>
Reference: YJBIN 2740

To appear in: *Journal of Biomedical Informatics*

Received Date: 6 November 2016
Revised Date: 9 February 2017
Accepted Date: 10 March 2017



Please cite this article as: Lotfi Shahreza, M., Ghadiri, N., Rasoul Mousavi, S., Varshosaz, J., Green, J.R., Heter-LP: A heterogeneous label propagation algorithm and its application in drug repositioning, *Journal of Biomedical Informatics* (2017), doi: <http://dx.doi.org/10.1016/j.jbi.2017.03.006>

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Heter-LP: A heterogeneous label propagation algorithm and its application in drug repositioning

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Abstract— Drug repositioning offers an effective solution to drug discovery, saving both time and resources by finding new indications for existing drugs. Typically, a drug takes effect via its protein targets in the cell. As a result, it is necessary for drug development studies to conduct an investigation into the interrelationships of drugs, protein targets, and diseases. Although previous studies have made a strong case for the effectiveness of integrative network-based methods for predicting these interrelationships, little progress has been achieved in this regard within drug repositioning research.

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