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Title: *In silico* assessment of adverse drug reactions and associated mechanisms

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PII: S1359-6446(15)00289-5
DOI: http://dx.doi.org/doi:10.1016/j.drudis.2015.07.018
Reference: DRUDIS 1663

To appear in:

Received date: 13-4-2015
Revised date: 15-7-2015
Accepted date: 31-7-2015

Please cite this article as: Ivanov, S.M., Lagunin, A.A., Poroikov, V.V.,*In silico* assessment of adverse drug reactions and associated mechanisms, *Drug Discovery Today* (2015), http://dx.doi.org/10.1016/j.drudis.2015.07.018

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Highlights:

- Early assessment of adverse drug reactions (ADRs) requires knowledge of their mechanisms
- Chemical and biological drug features can be used for assessment of mechanisms
- Predicted protein targets, genes, pathways, chemical fragments are used in ADR analysis
- Network and pathway analysis reveal true associations of features with ADR mechanisms
- Predictive models for adverse reactions can be created based on revealed features

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