Reviewer's report

Title: GenDrux: A guided system for supporting prescription by gene expression-based sensitivity

Version: 5 Date: 25 January 2011

Reviewer: Jörg Hakenberg

Reviewer's report:

C. Crasto, D. Luo, F. Yu, A. Forero, and D. Chen, "GenDrux: A supervised biomedical literature searching tool that recognizes gene expression-based drug sensitivity in breast cancer"

This paper presents an automatically collected repository of gene-drug-disease relations extracted from PubMed abstracts, currently focused on breast and other cancers. The authors use resources such as GeneOntology annotations, NCBI's Entrez Gene, etc. to map PubMed abstracts to genes that are discussed therein, achieving high data quality. The database can be accessed publicly via their webservice. Searches lead to evidence in the literature for gene/drug relations in the context of breast cancer; genes and drug are linked to external resources for further information.

All the questions and suggestions I had in the previous review rounds have been addressed. The manuscript has been improved and explains in more detail the underlying techniques as well as the usage of the GenDrux.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.