Reviewer’s report

Title: Diverse Convergent Evidence in the Genetic Analysis of Complex Disease: Coordinating Omic, Informatic, and Laboratory based evidence to prioritize findings for further study

Version: 1 Date: 11 November 2013

Reviewer: Martin Daumer

Reviewer’s report:

I have some concerns with the manuscript at this stage:

- A better overview over the literature should be given. Some key papers are definitely missing (e.g. http://www.ncbi.nlm.nih.gov/pubmed/15705441, http://www.plosmedicine.org/article/info:doi/10.1371/journal.pmed.0020124) and need to be integrated in the introduction and will have an impact on discussion and conclusion.

- I am not convinced about the proposed relative importance of missing true findings as compared to the risk of publishing false positive findings.

- The arguments in favor of the new method are more a collection of case studies than an attempt to generate empirical evidence (how have the cases be selected - was there a pre-defined plan? etc.).

- Our own experience has been summarized in http://www.biomedcentral.com/1471-2288/8/18/. and may contain some helpful information - although we had at that stage not the additional problem of dealing with "true omics" data.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

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

Declaration of competing interests:

See my forms published e.g. https://peerj.com/articles/82/