Reviewer's report

Title: A microRNA Molecular Modeling Extension for Therapeutic Prediction of Colorectal Cancer Treatment

Version: 2

Date: 3 March 2015

Reviewer: Lorenzo F. Sempere

Reviewer's report:

This is the first time I read this manuscript. I find it difficult to follow. The language used is not easily accessible. This greatly hinders appreciating what the authors have accomplished and its significance.

Major compulsory revisions

Tables and figures are not particularly helpful to illustrate authors's results and data. Perhaps, displays of miRNA regulatory networks with specific drug treatment that show how miRNA influence response would be a better way to illustrate how these different data sets are integrated.

While I don't fully understand the molecular concept for individualized medicine as described by the authors, it seems to have some resemblance with work by Ragoussis and colleagues: Cancer Res. 2011 Sep 1;71(17):5635-45; Mol Cancer. 2014 Feb 11;13:28; Mewes and colleagues Nucleic Acids Res. 2014 Dec 1;42(21); and other papers focused on the analysis of miRNAs in NCI-60 cell panel including: Comput Biol Chem. 2013 Jun;44:15-21; Cancer Res. 2012 Jul 15;72(14):3499-511; Mol Cancer Ther. 2010 May;9(5):1080-91; BMC Genomics. 2009 May 12;10:218

I don't believe any of these studies are discussed here.

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

Quality of written English: Not suitable for publication unless extensively edited

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:

I declare that I have no competing interests