Reviewer's report

Title: Targeting cyclin-dependent kinase 1 (CDK1) but not CDK4/6 or CDK2 is selectively lethal to MYC-dependent human breast cancer cells

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Reviewer: meixia Zhang

Reviewer's report:

Major Compulsory Revisions

The author’s study showed that Targeting CDK1 but not CDK4/6 or CDK2 is selectively lethal to MYC-dependent human breast cancer cells. Although the results are interesting, there are some concerns with regard to the following points prior to publication.

1. In the Results part (SiRNA-mediated MYC knockdown identifies MYC-dependent breast cancer cells), it appeared that there are only 25 cell lines, not 26 as you mentioned in materials part. Please check this.

2. From the Results part (SiRNA-mediated MYC knockdown identifies MYC-dependent breast cancer cells), in the text it appeared that there are 4 highly MYC dependent cell lines (Hs578T, MDA-MB-134, AU565 and SKBR3), but from table S2, it showed that Hs578T, HCC1594, MDA-MB-134, and AU565 are highly MYC dependent cell lines. From Fig S4, it showed that MDA-MB-134, HCC1594, AU565 and SKBR3 are highly MYC dependent cell lines. Please clarify this item.

3. From the Results part (SiRNA-mediated MYC knockdown identifies MYC-dependent breast cancer cells), in the text it appeared that there are 4 MYC independent cell lines (MDA-MB-175, MDA-MB-157, BT20 and HCC1500), but from Fig S4, it only showed 3 cell lines (MDA-MB-175, MDA-MB-157, and BT20) without HCC1500. Please clarify this.

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.