Reviewer's report

Title: Anaphase-promoting complex/cyclosome protein Cdc27 is a target for curcumin-induced cell cycle arrest and apoptosis

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Reviewer: claude prigent

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Anaphase-promoting complex/cyclosome protein Cdc27 is a target for curcumin-induced cell cycle arrest and apoptosis by Seung Joon Lee and Sigrid A. Langhans

The present manuscript reports the effect of Curcumin on cell proliferation. Curcumin induces cell cycle arrest and apoptosis of cancer cells, in particular in medulloblastoma cells.

The authors found that Curcumin binds to CDC27/APC3. Curcumin specifically binds the phosphorylated form of CDC27 inducing dimmers formation. Cells expressing this phosphorylated form of CDC27 were more sensitive to apoptosis induced by Curcumin. Finally they also report that Curcumin inhibits APC.

Overall, the quality of the data is very good, and the conclusions are well supported by the experiments. This is a nice and short paper.

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