Reviewer's report

Title: Glioblastoma-derived Leptin Induces Angiogenesis and Growth of Endothelial Cells: Comparison with VEGF Effects.

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Reviewer: Wen-Mei Fu

Reviewer's report:

In the manuscript by Ferla et al., authors suggest that glioblastoma-derived leptin induces angiogenesis and growth of endothelial cells. They show that GBM CM induced angiogenesis, which was blocked by both leptin receptor antagonist and VEGF receptor inhibitor. The following questions are raised.

1. The results show that leptin-induced angiogenesis was blocked by Aca 1, a leptin receptor antagonist. Does VEGF receptor inhibitor of SU 1498 affect leptin-induced angiogenesis?
2. If leptin is involved in GBM CM-induced angiogenesis, whether knockdown of leptin expression by ShRNA in LN18 and LN229 affects the angiogenic effects of GBM CM?
3. Does leptin antibody inhibit GBM CM-induced angiogenesis?
4. Does the knockdown of leptin expression by ShRNA affect the in vivo tumor formation of LN18 or LN229?

Minor point:
1. Fig. 2A: “Fold of control” is better indicated in Y axis.
2. Fig. 2B: Is VEGF expression affected by Aca 1?

Level of interest: An article of limited interest

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.