Reviewer’s report

Title: Role of LPAR3, PKC and EGFR in LPA-induced cell migration in oral squamous carcinoma cells

Version: 2
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Reviewer: bryan allen

Reviewer’s report:

The authors present very interesting data on the role of LPA and its associated receptors involvement of oral squamous cell carcinoma invasion.

Major Compulsory Revisions:
1) Provide E10 pAKT data after exposure to VPC
2) Every Western series needs loading controls. For example, faint bands appear visible in the SCC-9 pEGFR gels outlining a possible bubble in the gel. The loading control will help clarify this.
3) Quantify Westerns using ImageJ or another program with supporting statistical analysis in order to make statements about the extent of Akt, ERK, p38 and EGFR phosphorylation inhibition.

Minor Essential Revisions:
1) Figure 4, Figure labels differ from figure legend. Stimulated with LPA for 0 or 1 min.
2) Specify how GF2, 5uM differs from GF2 either in the text or figure legend.

Discretionary Revisions:
1) Expose SCC-9 and D2 cells to varying concentrations of LPA
2) Repeat SCC-9, E10, and D2 EGFR inhibition Western blot studies with cetuximab as described Figure 7. Will likely provide interesting clarification on D2 cells EGFR insight into the extracellular ligand binding site vs the intracellular kinase site.

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:
I declare that I have no competing interests.