Reviewer's report

**Title:** Elevated expression of LSD1 (Lysine-specific demethylase 1) during tumour progression from pre-invasive to invasive ductal carcinoma of the breast

**Version:** 2  **Date:** 2 August 2012

**Reviewer:** David Stokoe

**Reviewer's report:**

The data is potentially interesting, though preliminary and short. If this is within the scope of the journals publications, I don't have any issue with the data per se. What I do find quite surprising, is that the data directly contradicts their previous report, showing that LSD1 immunoreactivity was associated with ER negative tumors. This manuscript shows that LSD1 positivity is associated with ER positive tumors. This discrepancy is barely mentioned, never mind attempted to explain. It is confusing when discrepant data is presented from different groups, but even more so when the same group provides this. Minimally I would expect to see some kind of explanation in their discussion - the size of the cohorts examined is quite similar.

**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.