Review of: "Increased Protein and Transcript Expression Levels of Lysine-Specific Demethylase 1 (LSD1) Signify Worse Prognosis in Triple-Negative Breast Cancer"

Chinmay Kumar Panda

Potential competing interests: No potential competing interests to declare.

In this study, importance of Lysine-specific demethylase 1 (LSD1) in development of TNBC was evaluated. Overexpression of LSD1 was seen in majority of primary TNBC samples and was associated with poor prognosis of the disease.Similar phenomenon was seen TCGA data set. In LSD1 positive TNBC tumors upregulation of four genes (*ELOC, COPS5, MTDH, VEGFR1*) was seen along with association of*COPS5* and *ELOC* expression with poor survival of the patients. The LSD1 expression has also been seen to be associated with different proliferation associated pathways like cell cycle, DNA replication etc. Following comments can be made:

1. Demography of the patients should be given in the text.

2. Magnification bar in the immunohistochemical figures should be given with clear description of the results in the text.

3. Proper references in the methodology section should be given.

4. Apart from mRNA expression analysis in archival FFPE tissue samples, significantly altered mRNA expression of the relevant genes should be validated in independent set of primary TNBC tumor samples.

5. Discussion should be described in relation to the results.