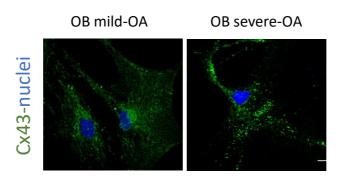
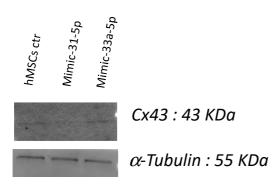
## Supplementary Figure 1



**Figure 1S:** Confocal analysis of Cx43 protein expression and localization on OB isolated by OA patients (mild and severe grade); in green the Cx43 signals, while in blue the nuclei localization.

Α



В

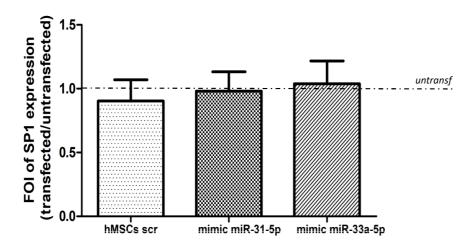


Figure 2S: Preliminary investigation on Cx43 and SP1 expression into hMSCs.

- A) Evaluation of Cx43 and a-tubulin expression on hMSCs transfected with scramble, miR-31-5p mimic and miR-33a-5p mimic.
- B) qRT-PCR analysis of SP1 expression on hMSCs transfected with scramble, miR-31-5p mimic and miR-33a-5p mimic Data are represented as fold of change (FOI) in gene expression ( $2^{-\Delta\Delta Ct}$ ) occurred in transfected cells vs untransfected cells. Student t test: p<0.05, \*\*\*, p<0.005, \*\*\*, p<0.005 between experimental group.