CORRECTION

## Correction: Trastuzumab effects depend on HER2 phosphorylation in HER2-negative breast cancer cell lines

## The PLOS ONE Staff

There is an error in the caption for <u>Fig 6</u>. The caption includes text that should be placed between the second and third paragraphs of the Discussion. The publisher apologizes for the error. Please see the complete, correct <u>Fig 6</u> caption here.

As a result, there is a paragraph missing between the second and third paragraphs of the Discussion. Please see the missing text here.

In this study we show that BT-474 and SKBR3, which are HER2+/pHER2<sup>Y877</sup> + have a better response to trastuzumab than MDA-MB-453, which is also HER2+ but not phosphorylated at Y877 (HER2+/pHER2<sup>Y877</sup> –). This is concordant with studies reporting that HER2 phosphorylation leads to a better response to trastuzumab in HER2-positive BC tumors [35–38]. As shown in a study by Giuliani *et al.*, among HER2+ BC patients treated with trastuzumab, 89% with pHER2Y<sup>1248</sup>+ showed a positive response while only 49% of pHERY<sup>1248</sup> – presented a positive response [39]. These results suggest that the combination of HER2 +/pHER<sup>Y877</sup>+ could indeed predict a better response to trastuzumab. However, our study is the first to examine HER2 phosphorylation at position Y877 in HER2-negative BC cell lines with regard to trastuzumab treatment. We demonstrated here that the decrease in proliferation in HER2-negative BC cell lines is Y877-phosphorylation-specific, as the TNBC cell line MDA-MB-468, which is HER2-/pHER2<sup>Y877</sup>+, displays sensitivity to trastuzumab. Studies have reported that Y877 phosphorylation is a marker of HER2 activation. This again is in agreement with our results showing that HER2 over-activation by over-phosphorylation at Y877 could be an additional biomarker in BC diagnosis.

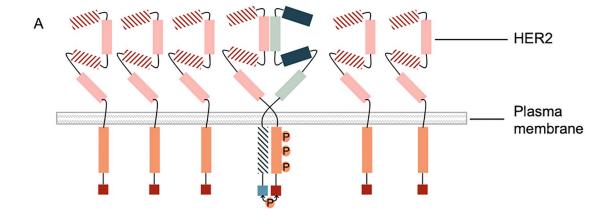


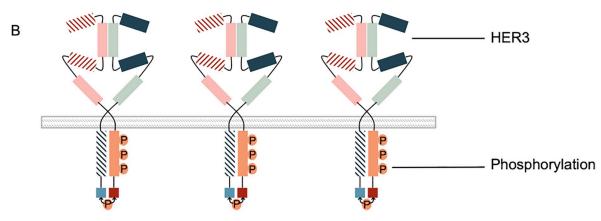


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**Fig 6. Overexpression versus overphosphosrylation of HER2.** A. Overexpression of HER2 with non-overphosphorylation of HER2 (HER2 +; pHER2-). B. Non-overexpression of HER2 with overphosphorylation of HER2 (HER2-; pHER2+).

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## Reference

 Burguin A, Furrer D, Ouellette G, Jacob S, Diorio C, Durocher F (2020) Trastuzumab effects depend on HER2 phosphorylation in HER2-negative breast cancer cell lines. PLoS ONE 15(6): e0234991. https://doi.org/10.1371/journal.pone.0234991 PMID: 32584853