

Corrigendum

Acquired resistance to zoledronic acid and the parallel acquisition of an aggressive phenotype are mediated by p38-MAP kinase activation in prostate cancer cells

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Since the publication of this paper the authors have noticed the blots in Figure 5c displaying p-PHSP27 and HSP27 were

incorrect. The correct figure is shown below. The corrected article appears online together with this corrigendum.

The authors would like to apologize for any inconvenience.

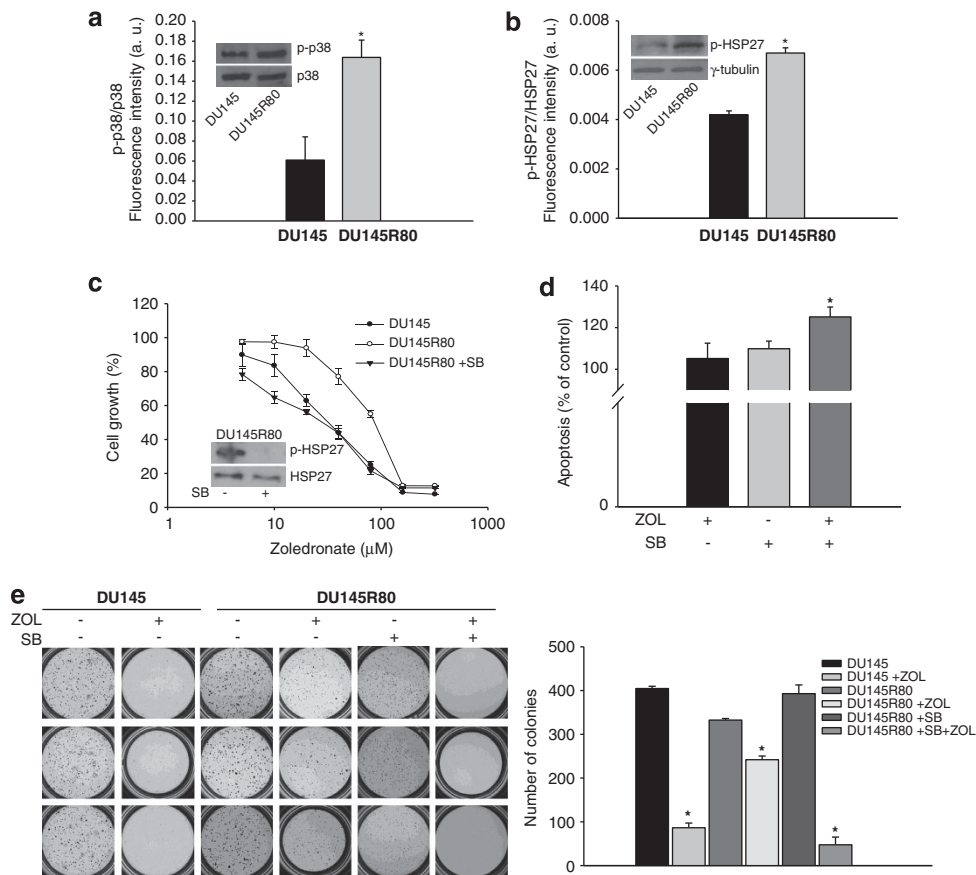


Figure 5 P38-MAPK activation was involved in the resistance to ZOL of DU145R80 cells. (a) Analysis of p38-MAPK and HSP27 activation evaluated by a phosphoprotein ELISA-based immunoassay (see Materials and Methods) (a and b) and by western blot (a and b inset panels). Values from phosphoprotein assay are means \pm S.D. of two independent experiments performed in triplicates and statistical analysis of DU145R80 versus DU145 cells is reported (* $P=0.037$, p38-MAPK; $P=0.005$, HSP27). (c) DU145R80 cells were treated for 96 h with increasing concentrations of ZOL alone or after 24 h of pretreatment with SB 30 μ M and compared with DU145 treated with ZOL alone. Cell growth expressed as percentage of control was assessed by sulforhodamine B colorimetric assay (see Materials and Methods) and each point is the mean \pm S.D. of three independent experiments. Expression of p-HSP27 and HSP-27 in DU145R80 cells untreated or treated with SB 30 μ M for 24 h were evaluated by western blot (inset panel). (d) Apoptosis evaluated by AnnexinV binding and cytofluorimetric analysis in DU145R80 cells untreated or treated with ZOL 20 μ M alone or in combination with SB 30 μ M for 48 h. Values of apoptotic cells are means \pm S.D. of three independent experiments and were expressed as per cent of untreated cells (100%). Statistical analysis demonstrated significant differences only in ZOL + SB combination versus untreated cells (* $P=0.026$). (e) Soft-agar clonogenic assay was performed on DU145 and DU145R80 cells untreated or treated with ZOL alone (20 μ M) or in combination with SB (30 μ M) for 21 days, in 24-well plates. Colonies > 100 μ m were scored by a colony counter. Left: images from a representative experiment; right: values expressed as number of colonies are means \pm S.D. from at least two independent experiments performed in triplicates. Statistical analysis results are reported (* $P<0.001$, ZOL versus untreated cells in DU145; $P=0.005$, ZOL versus untreated cells in DU145R80; $P=0.002$, $P=0.005$, $P=0.003$, ZOL + SB combination versus untreated, versus ZOL or versus SB-treated cells, respectively, in DU145R80)