

sFigure 1. Immunofluorescence, ELISA and mRNA profiles of different types of senescent cells with or without p16^{INK4a} expression.

A. IL-6, IL-8, Ras^{V12}, p21^{CIP1/WAF1}, p16^{INK4a} and p53 expression in presenescent (PRE) and senescent (SEN) cells. In the top panel WI-38 cells were analyzed by immunofluorescence and in the lower panels the indicated cells were analyzed by western blotting.

For immunofluorescence, each panel is a different field. Senescence inducers are shown on the left, and the SA-Bgal and growth status are shown on the right. Cultures were considered growth positive (+) when >70% of cells incorporated BrdU over a 1 d interval, and negative (-) when <10% of cells incorporated BrdU over the same period. Cultures were considered SA-Bgal positive (+) when >80% of cells stained for SA-Bgal and negative (-) when <5% of cells stained.

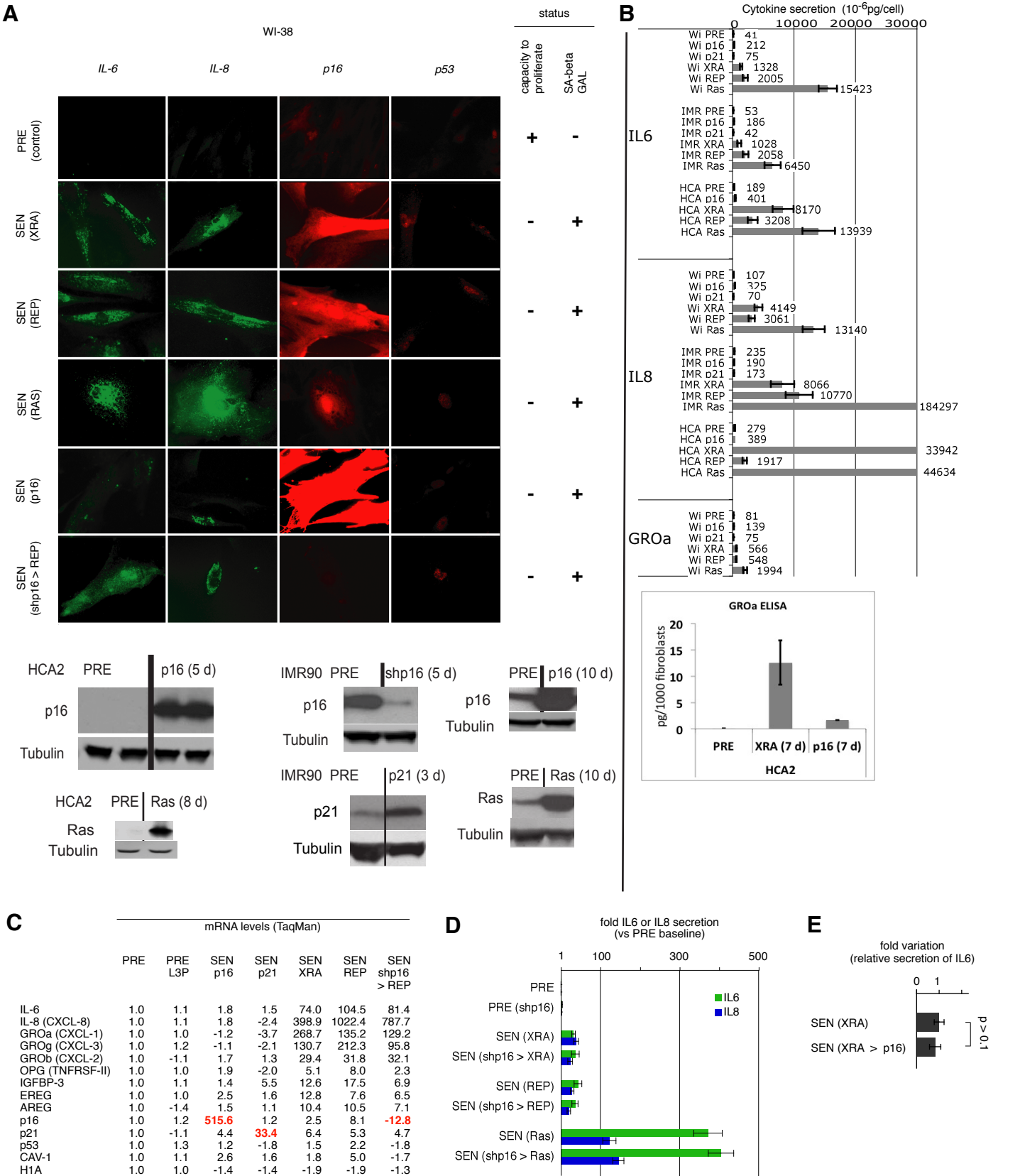
For western analysis, the two panels on the left show the indicated protein expression in HCA2 cells infected with control lentiviruses (PRE) or lentiviruses encoding p16^{INK4a} (5 d after infection) or Ras^{V12} (8 d after infection). The four panels on the right show indicated protein expression in IMR90 cells infected with control lentiviruses (PRE) or lentiviruses encoding p16^{INK4a} (10 d after infection), Ras^{V12} (10 d after infection), p21^{CIP1/WAF1} (3 d after infection) or an shRNA targeting p16^{INK4a} (5 d after infection).

B. Soluble factors (IL-6, IL-8, GRO α) produced by the indicated cells were determined by ELISA ($\times 10^{-6}$ pg/cell in the top panel or pg/1000 cells in the lower panel).

C. The indicated mRNA levels expressed by various senescent (SEN) cell types (L3P in PRE cells = control vector).

D. ELISA measurements of IL-6 and IL-8 secretion by cells expressing p16^{INK4a} or depleted of p16^{INK4a} (shp16) (complement to Fig. 3).

E. Fold variation for ELISA measurements of IL-6 secretion by irradiated HCA2 cells (SEN(XRA)) and similar HCA2 cells induced to ectopically express p16^{INK4a} 48 hours after irradiation (SEN(XRA > p16)).



sFigure 1 (supplement) _ Coppé et al