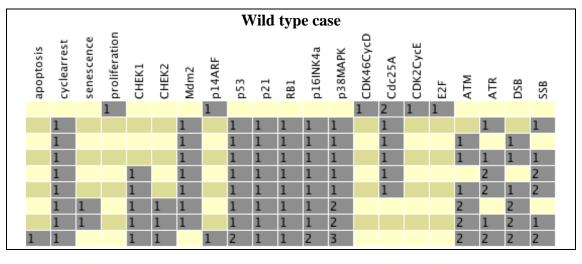
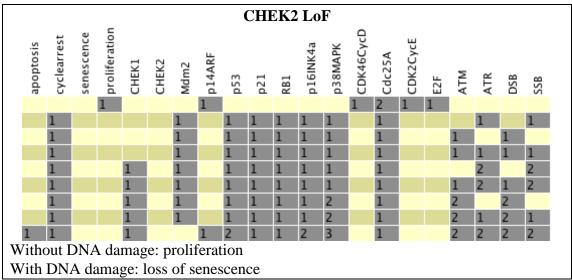
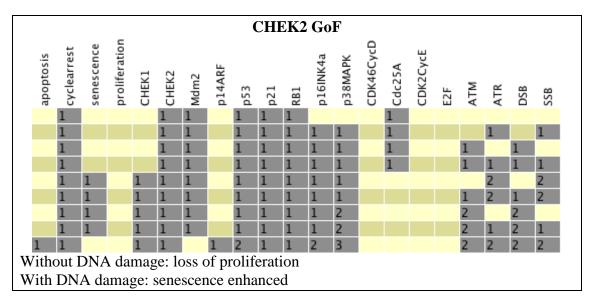
## **Supplementary Material**

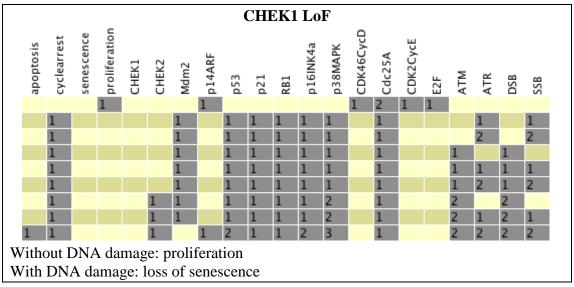
Paper: Modelling the onset of senescence at the G1/S cell cycle checkpoint Authors: José CM Mombach, Cristhian A Bugs and Claudine Chaouiya

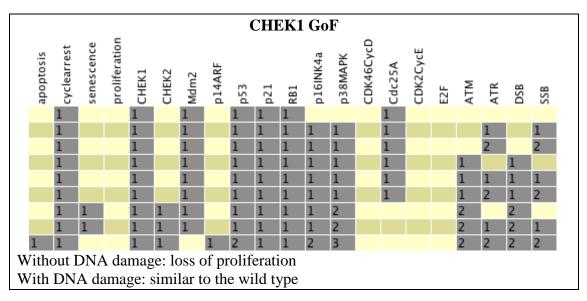
Stable states for the wild type situation and a range of perturbations corresponding to Loss-of-Function (LoF) and Gain-of-Function (GoF) *in silico* experiments (see also Table 3). Results were obtained using GINsim. For a LoF, the component value is constrained to value 0, whereas for a GoF the value is constrained to value 1 (for a Boolean case), or within a range of positive values (indicated between square brackets). States are displayed in the same way as in Figure 2. Each of the 9 combinations of SSB and DSB values (2 right-most columns) leads to a unique stable state denoting a cell fate defined by the values of the outputs (4 left-most columns). Below each table, a short interpretation indicates the main phenotypic changes compared to the wild type situation.

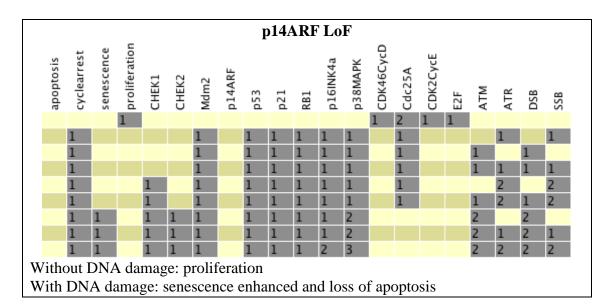


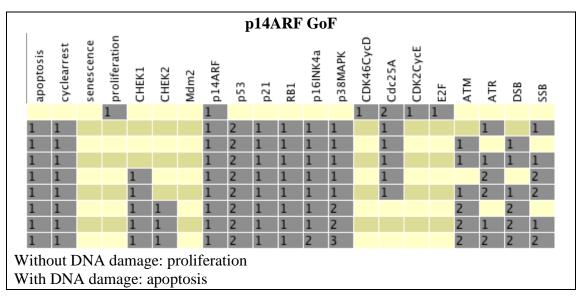


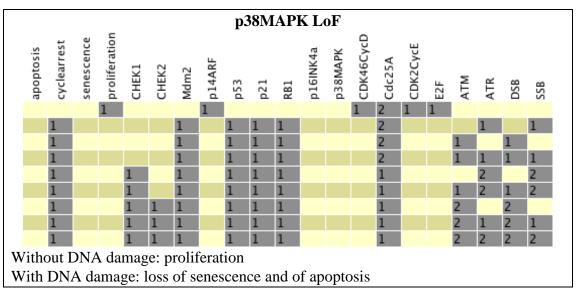


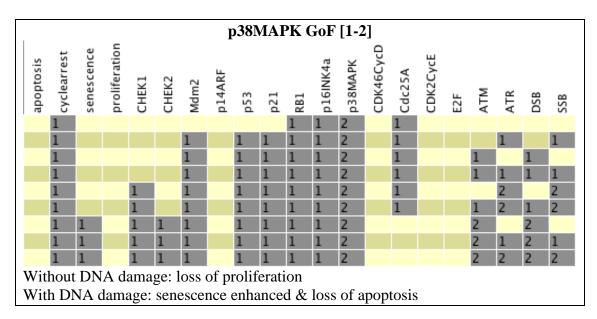


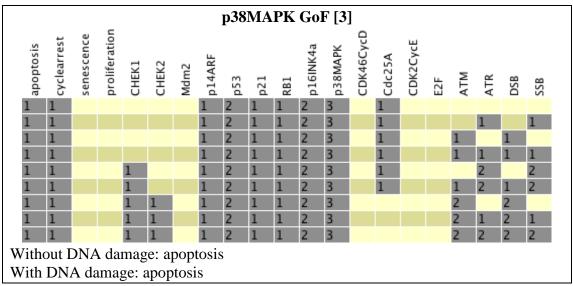


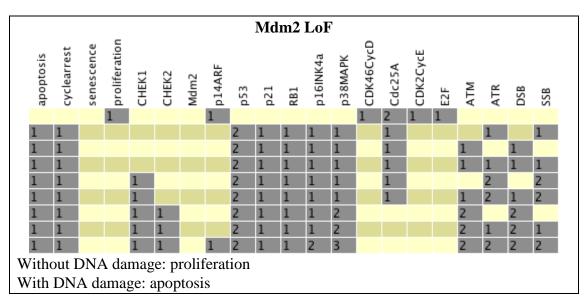


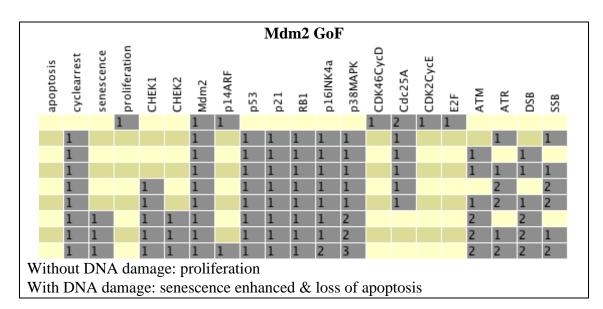


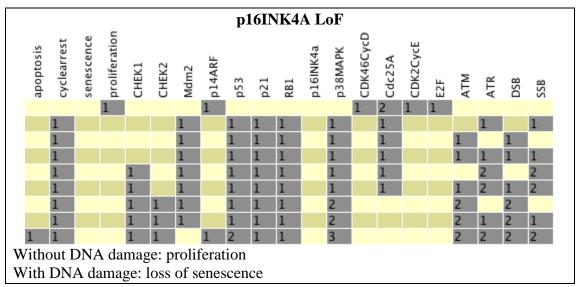


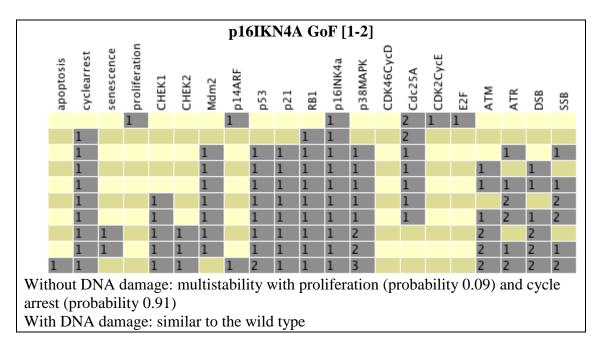


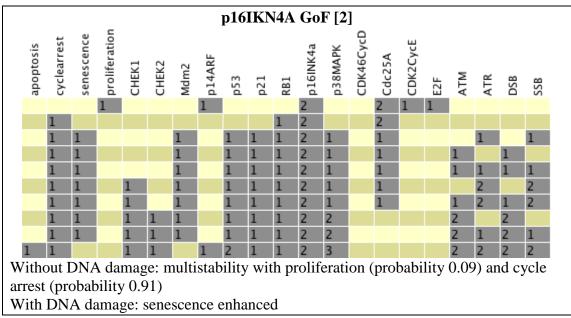


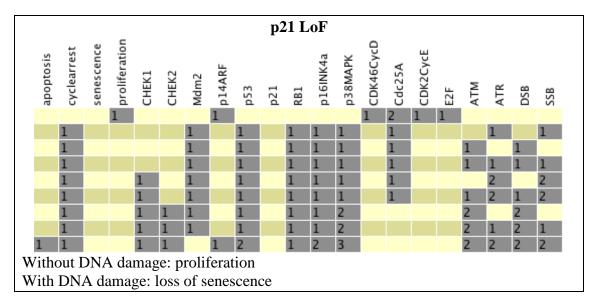


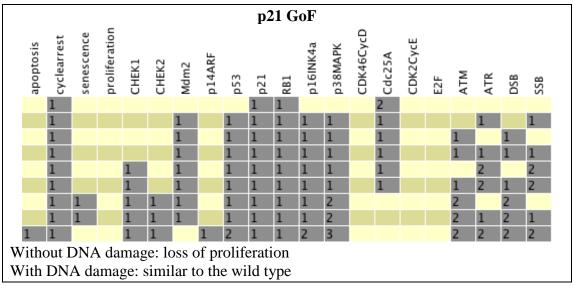


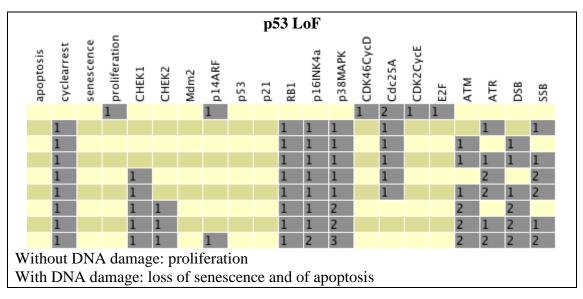


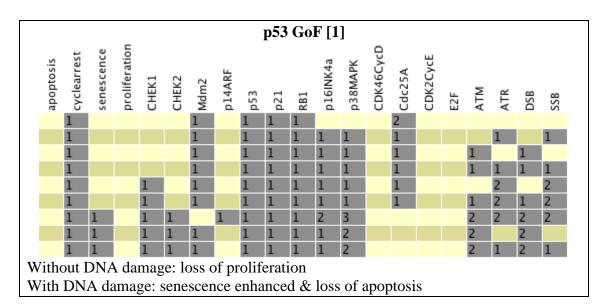


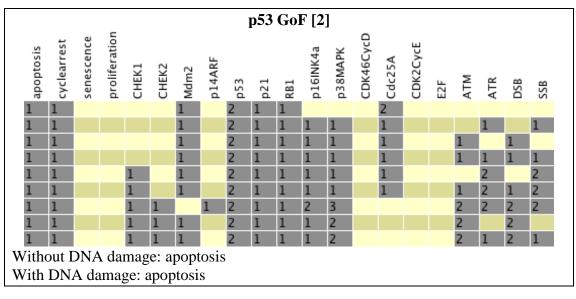


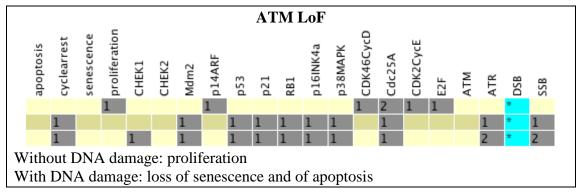


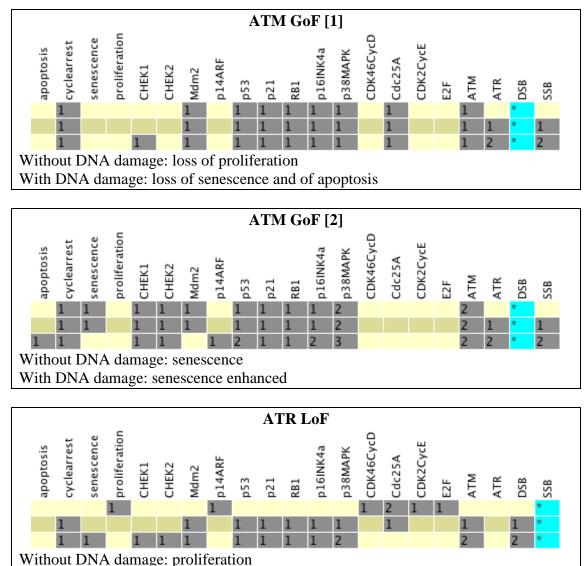












With DNA damage: senescence enhanced & loss of apoptosis

