| | AP | SEN1 | SEN2 | SEN3 | SEN4 | SEN5 |
|---|---|---|---|---|---|---|
| **Senescent cells** | 6.8±0.9 | 27.1±3.5 | 18.5±2.4 | 15.5±2.32 | 20.1±2.4 | 28.2±3.6 |
| **G0/G1** | 70.7±12.1 | 81.3±8.9 | 78.3±13.3 | 82.1±13.9 | 54.8±7.1 | 55.5±6.6 |
| **S** | 14.41±0.4 | 8.4±0.5 | 6.5±0.8 | 4.8±0.7 | 6.0±0.9 | 5.57±0.8 |
| **G2/M** | 14.8±2.1 | 10.2±1.8 | 15.0±1.8 | 13.0±1.8 | 39.1±6.6 | 38.8±6.6 |
| **Apoptotic cells** | 3.0±0.4 | 5.6±0.7 | 2.3±0.5 | 6.7±0.8 | 5.2±0.3 | 7.1±0.7 |

**Supplemental file 5 – Treatment of human dermal fibroblasts with $H_2O_2$**

Human BJ-5ta dermal fibroblasts (HDF) from ATCC Italy (code CRL-4001) were grown in DMEM low glucose with 10% FBS. HDF cultures (70% confluent) were incubated with 300μM hydrogen peroxide ($H_2O_2$) (Sigma-Aldrich MO, USA) for 0.5 hour. Following this treatment, cells were further cultivated for 64 hours. Cell samples were collected at 0.5, 1, 24, 48, and 64 hours post-$H_2O_2$ treatment for other biological assays.

The term AP stands for active proliferating cells. The terms SENs refer to incubation time after $H_2O_2$ treatment: SEN1 (0.5 hours), SEN2 (1 hour), SEN3 (24 hours), SEN4 (48 hours), SEN5 (64 hours).

In the table are reported the percentage of senescent cells detected by determining SA-β-gal activity. The cell cycle was evaluated with as reported in Methods. The apoptosis was detected as described in supplemental file 4.