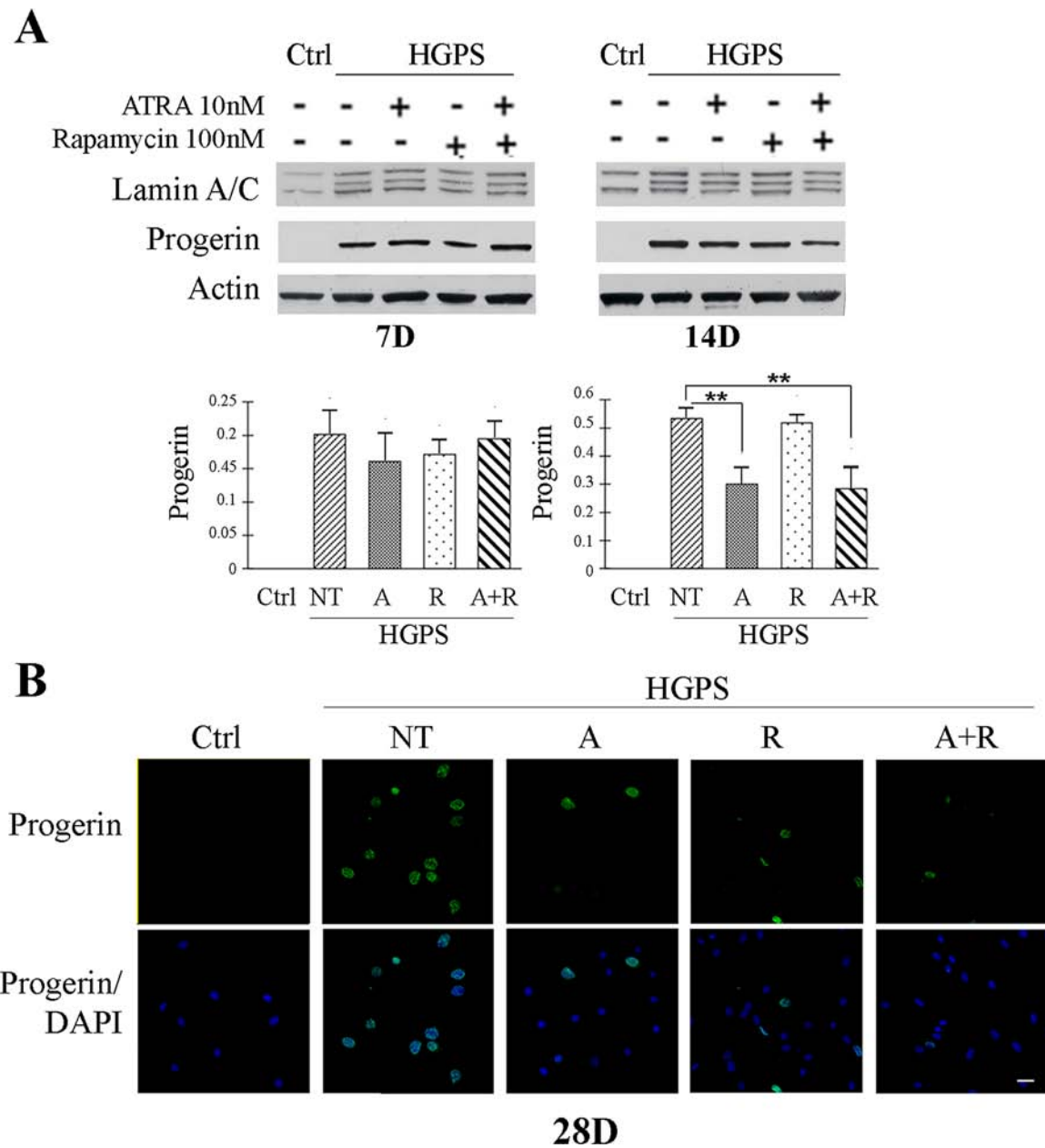
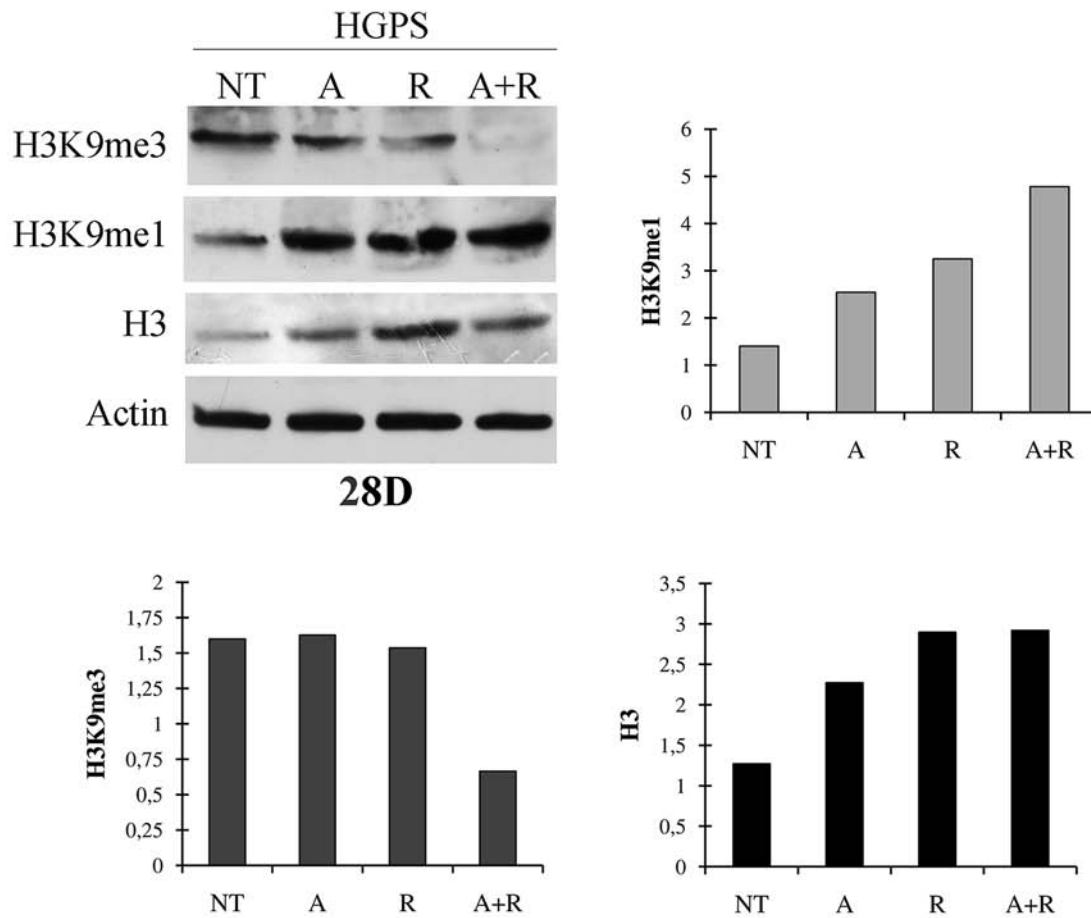


SUPPLEMENTARY FIGURES

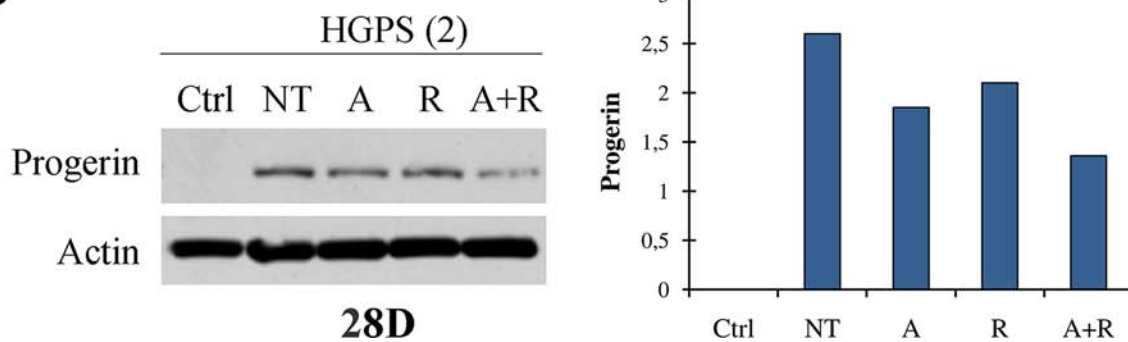


Supplementary Figure S1: A. Treatment effect at different time points. Western blotting analysis of progerin and lamin A/C and relative densitometric quantification at 7 and 14 days of treatment. Actin is used as loading control. Data are presented as means \pm SD ($n = 3$); $P = 0.01(**)$. **B.** Low magnification figure 1B. Immunofluorescence analysis of progerin (green) at 28 days of treatment. DAPI is used as nuclear staining. Scale bar, 10 μ M. Ctrl: Healthy fibroblasts; NT: not treated HGPS fibroblasts; A, R and A+R: HGPS fibroblasts treated with ATRA, rapamycin and combined ATRA + rapamycin respectively.

A



B



Supplementary Figure S2: A. Western blot analysis of H3K9 (tri-methylated and mono-methylated) and total H3, in untreated (NT) and treated (28 days) HGPS nuclei. A, R and A+R: HGPS fibroblasts treated with ATRA, rapamycin and combined ATRA + rapamycin respectively. **B.** Western blotting analysis of progerin and lamin A/C replicated in cultured fibroblasts from a second HGPS patient.