

Supplementary Material for

Chronological age and DNA damage accumulation in blood mononuclear cells: a linear association in healthy humans after 50 years of age

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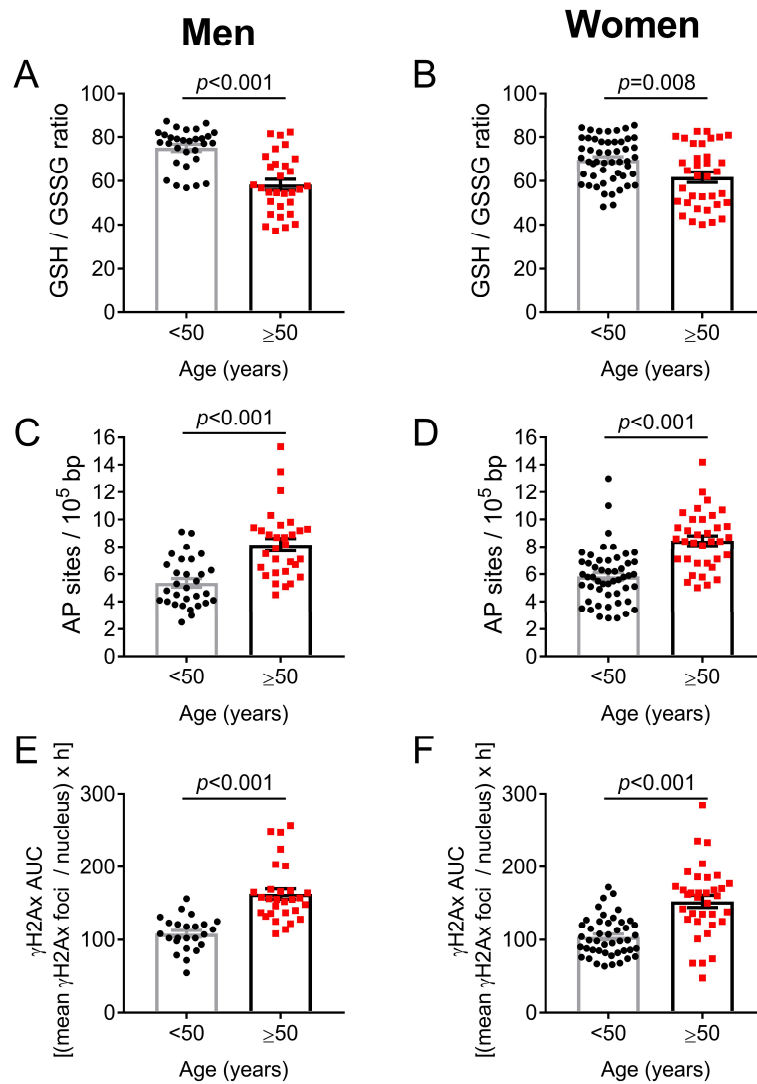


Figure S1. Oxidative stress, abasic sites and DSB repair capacity. Bar graphs showing (A,B) the oxidative stress levels expressed as the ratio of reduced to oxidized glutathione (lower ratio is an indication of higher oxidative stress levels) (GSH/GSSG mean \pm SEM, men: <50 = 75.1 \pm 1.6; \geq 50 = 58.4 \pm 2.4; women: <50 = 69.6 \pm 1.4; \geq 50 = 61.8 \pm 2.4), (C,D) the apurinic / apyrimidinic (AP) sites (AP sites per 10^5 nucleotides mean \pm SEM, men: <50 = 5.4 \pm 0.3; \geq 50 = 8.2 \pm 0.5; women: <50 = 5.8 \pm 0.3; \geq 50 = 8.5 \pm 0.4) and (E,F) the melphalan-induced accumulation of γ H2AX foci (expressed as AUC over a 24 h period) (γ H2AX AUC over 24h mean \pm SEM, men: <50 = 108.2 \pm 4.7; \geq 50 = 162.6 \pm 7.4; women: <50 = 103.9 \pm 4.0; \geq 50 = 152.5 \pm 8.3) in healthy men (A,C,E) and women (B,D,F) younger and older than 50 years. The experiments shown were based on a minimum of 3 independent repeats. *P*-values were derived from Mann-Whitney U test. Bars and error bars represent mean and standard error of the mean (SEM).