

Figure S1

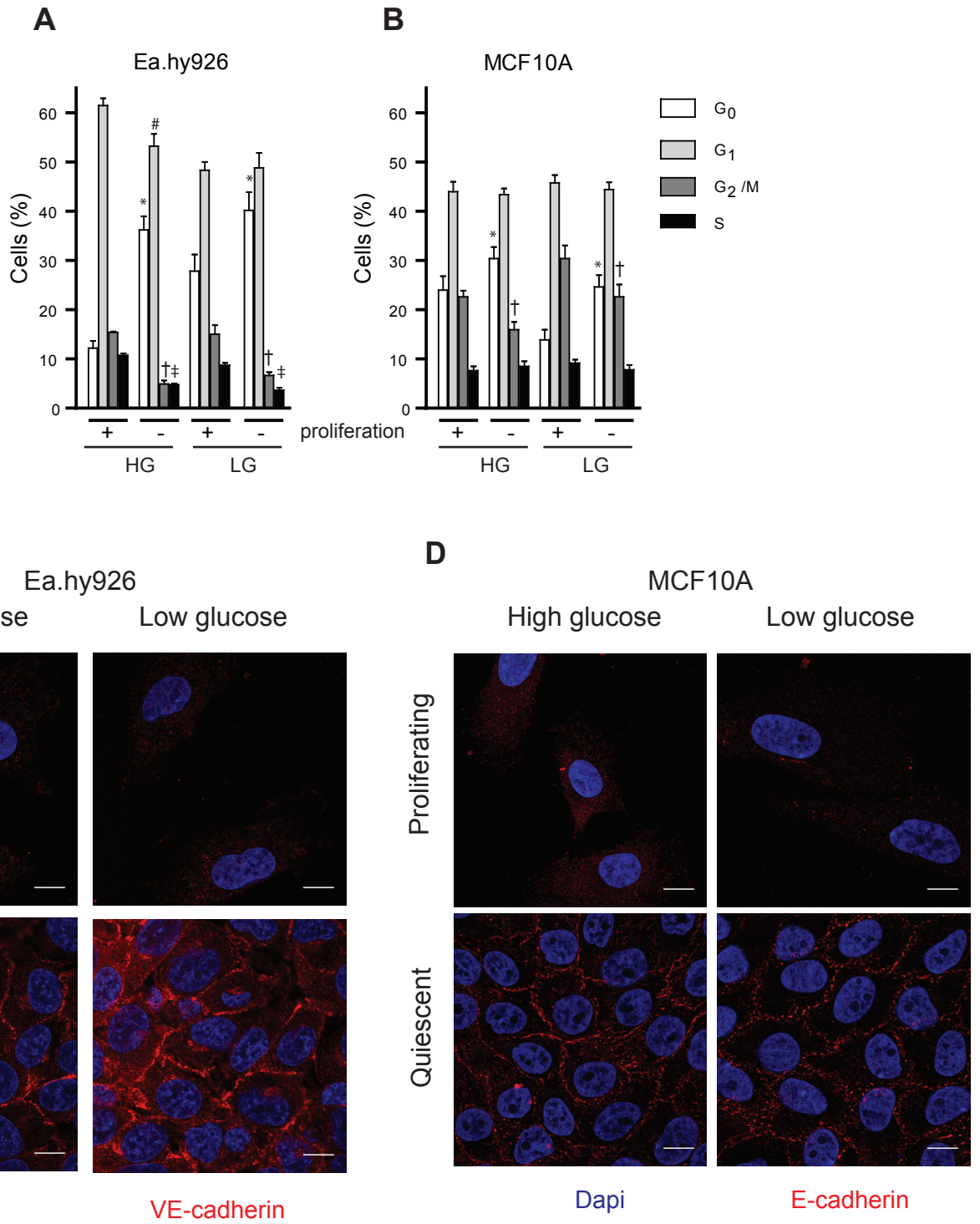


Fig. S1. **Confluent cells undergo cell cycle arrest and form adherence junctions.** (A, B) Analysis of cell cycle distribution of (A) Ea.hy926 and (B) MCF10A cells was performed by double staining for Hoechst 33342 and Pyronin Y. Flow cytometry was used to assign cells to G₀/G₁/S/G₂M phase of the cell cycle based on the level of Hoechst 33342 and Pyronin Y staining. The symbol * indicates, compared to proliferating cells, significantly increased G₀ phase, the symbol # significantly decreased G₁ phase, the symbol † significantly decreased G₂/M phase, the symbol ‡ significantly decreased S phase. Data are shown as means ± S.E.M. of at least 5 independent experiments. (C, D) Adherence junctions in (C) Ea.hy926 and (D) MCF10A cells were detected by immunostaining for VE-cadherin and E-cadherin, respectively, and analyzed by confocal microscopy. Representative images are shown from 3 independent experiments.

FIGURE S2

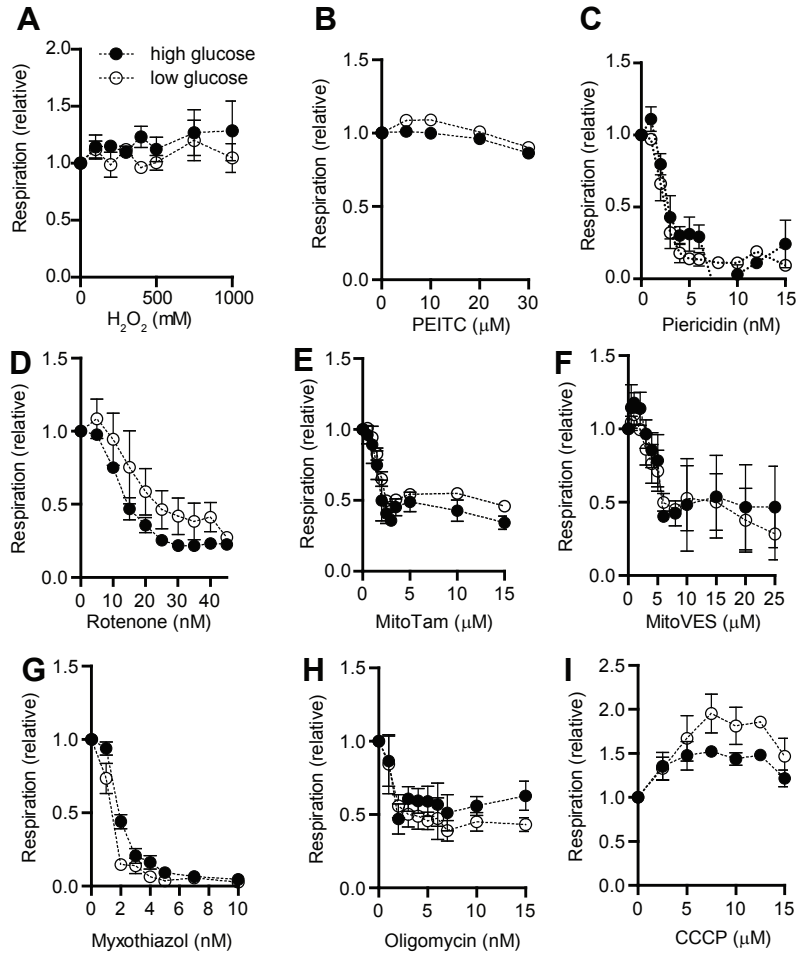


Fig. S3. The effect of investigated agents on cellular respiration. Oxygen consumption by proliferating Ea.hy926 cultured in both low glucose (1 g/l) and high glucose (4.5 g/l) media was monitored by the Oroboros Oxygraph instrument. Basal respiration was established after adding succinate (10 mM) and ADP (3 mM), and was followed by titration of pharmacological agents indicated in **A-I**.

Figure S3

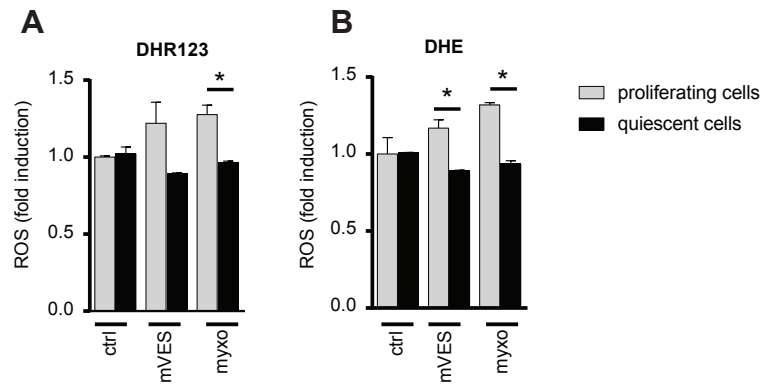


Fig S3. Confirmation of ROS production upon ETC inhibition in proliferating cells. Proliferating and quiescent Ea.hy926 cells in high glucose media were exposed to MitoVES (10 μ M) and myxothiazol (15 μ M) for 1 h, and ROS formation was assessed using (A) DHR123 or (B) DHE by flow cytometry. The symbol * indicates values significantly increased in proliferating compared to quiescent cells, $n \geq 3$.

FIGURE S4

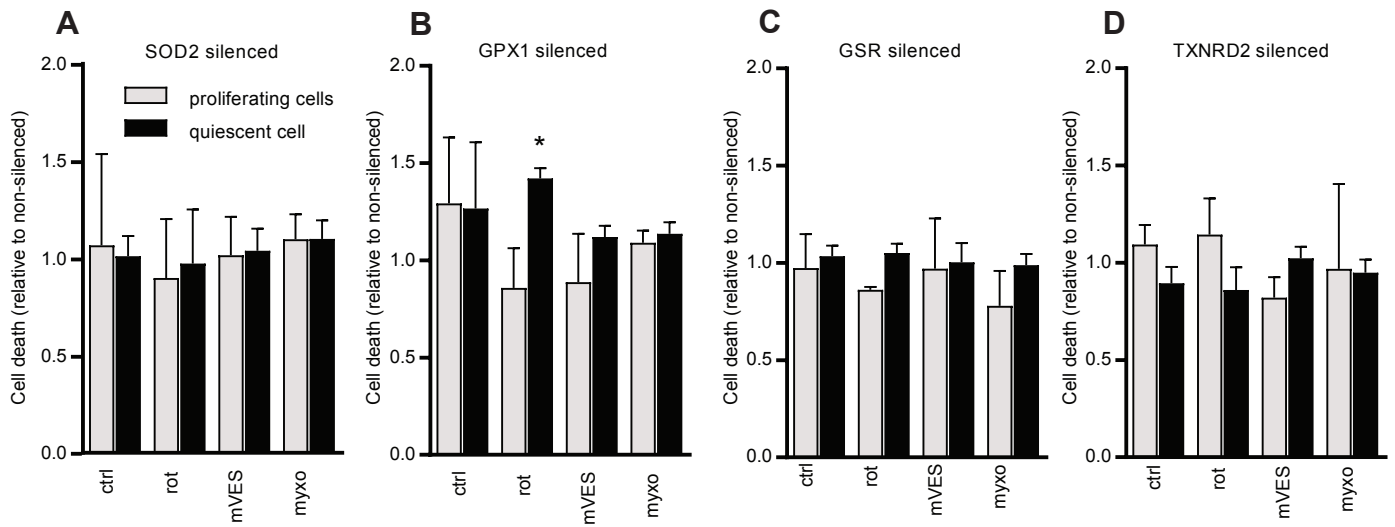


Fig. S4. Antioxidant defence does not protect quiescent cells from cell death when glucose is limiting. Ea.hy926 cells cultured in low glucose media were silenced for SOD2 (A), GPX1 (B), GSR (C) and TXNRD2 (D). The cells were treated with indicated compounds as describe in Figure 3 for 22 h and cell death was assessed by the Annexin V/PI method. Data shown are means $\pm$ SEM of 4 independent experiments, and are shown relative to non-silencing control.