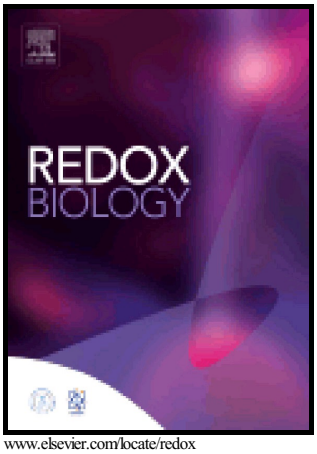


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# Role of p16$^{INK4a}$ and *BMI-1* in oxidative stress-induced premature senescence in human dental pulp stem cells

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## ABSTRACT

Human dental pulp stem cells (hDPSCs) are a source for cell therapy. Before implantation, an *in vitro* expansion step is necessary, with the inconvenience that hDPSCs undergo senescence following a certain number of passages, loosing their stemness properties. Long-term *in vitro* culture of hDPSCs at 21% (ambient oxygen