Correction

Correction: Prostaglandin E₂ Promotes Features of Replicative Senescence in Chronically Activated Human CD8⁺ T Cells

The PLOS ONE Staff

There are errors in Figure 3(B). The authors have provided a corrected version here.

Citation: The PLOS ONE Staff (2014) Correction: Prostaglandin E₂ Promotes Features of Replicative Senescence in Chronically Activated Human CD8⁺ T Cells. PLoS ONE 9(9): e107600. doi:10.1371/journal.pone.0107600

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Figure 3. PGE₂ and iso-PGE₂ inhibit telomerase activity while increasing intracellular ROS. CD8⁺ T cells were negatively selected after 72 hours post activation with anti-CD2/CD3/CD28 microbeads with or without PGE₂ or iso-PGE₂, and inhibitors of PKA pathway. (A) (Top Left) *hTERT* expression was quantified at equivalent PDs by qPCR (n = 5; *p = 0.0312; **p = 0.031 using one-sided T test because of decreased sample size for these conditions only; n = 4). (Top Middle) Representative gel showing effects of PGE₂ (10⁻⁶ to 5⁻⁷M) and iso-PGE₂ (10⁻⁶ to 5⁻⁷M) on telomerase activity of CD8⁺ T cells. Band intensity per lane correlates with relative telomerase activity of 1,250 CD8⁺ T cells in each treatment group. (B) Telomerase activity was measured as described in (A) with PGE₂ or iso-PGE₂ in the presence of 1 μM of a PKA inhibitor, H89 dihydrochloride. (C) CD8⁺ T cell cultures were established and chronically activated as previously described in the presence of the immune modulators. Telomere lengths were evaluated by Real-Time PCR and expressed as a percentage of telomere length of a human tumor cell line, SAOS (~23Kb). Data represent telomere lengths over the lifetime from 3 representative donor cultures. (D) (Top) The relative amount of intracellular ROS was determined by the mean fluorescence intensity of DCFDA-stained, live CD8⁺ T cells after 24 h of culture with media alone or in the presence of PGE₂, isoPGE₂, ox-LDL, or H₂O₂ (pos control). (Bottom) Representative flow cytometry profile of MitoSOX red oxidation in PGE₂- and iso-PGE₂-treated T cells. doi:10.1371/journal.pone.0099432.g003

Reference

1. Chou JP, Ramirez CM, Ryba DM, Koduri MP, Effros RB (2014) Prostaglandin E₂ Promotes Features of Replicative Senescence in Chronically Activated Human CD8⁺ T Cells. PLoS ONE 9(6): e99432. doi:10.1371/journal.pone.0099432