Correction

Correction: Prevention of irradiation-induced salivary hypofunction by rapamycin in swine parotid glands

Zhao Zhu[1], Baoxing Pang[1], Ramiro Iglesias-Bartolome[2], Xiaoshan Wu[1], Lei Hu[1], Chunmei Zhang[1], Jinsong Wang[1], J. Silvio Gutkind[3], Songlin Wang[1]

[1]Molecular Laboratory for Gene Therapy and Tooth Regeneration, Beijing Key Laboratory of Tooth Regeneration and Function Reconstruction, Capital Medical University School of Stomatology, Beijing 100050, China

[2]Oral and Pharyngeal Cancer Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health, Bethesda, MD 20852, USA

[3]Department of Pharmacology and Moores Cancer Center, UC San Diego, La Jolla, CA 92093, USA

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This article has been corrected: Due to errors during image assembly, Figures 5A and 5E incorrectly show a single shared β-Actin panel for the western blot experiments. The corrected Figure 5 is shown below. The authors declare that these corrections do not change the results or conclusions of this paper.

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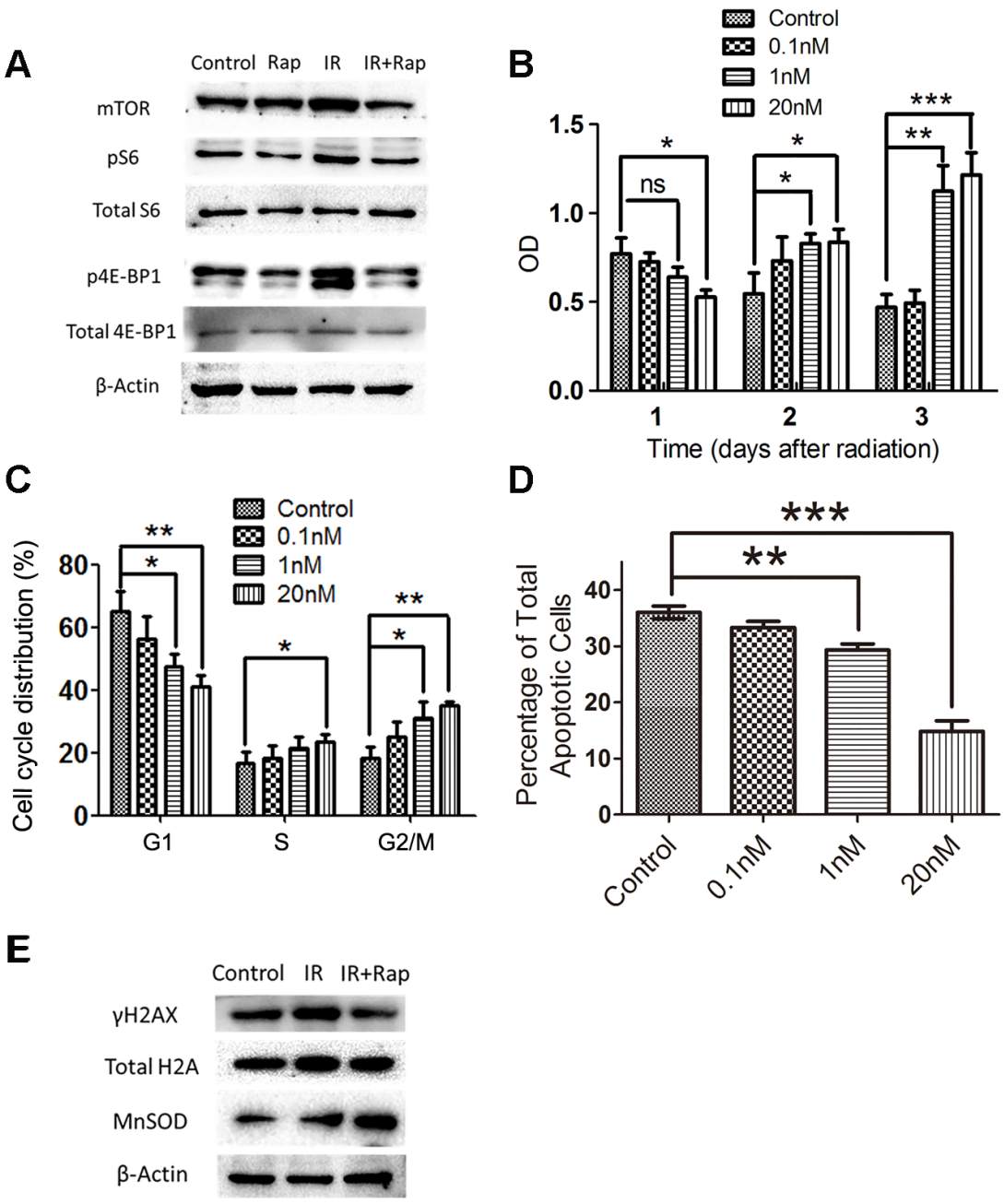

Figure 5: Rapamycin protected the proliferation capacity and decreased ROS-induced DNA damage response in irradiated HSG cells following irradiation. Cells were plated in 6 wells plates and treated with different concentration or without of rapamycin for 72 h, then irradiated with 8 Grays (Gy), and maintained in vehicle or rapamycin medium for 24 h, afterwards all cells were changed into normal medium. (**A**) western blot analysis of mTOR pathway expressions in control (non-irradiated and no rapamycin treatment, Control), rapamycin treated (non-irradiated, Rap), irradiation (IR) and irradiation + rapamycin (IR + Rap) HSG cells 24 h after irradiation. Rapamycin incompletely inhibited mTOR pathway activation of HSG cells following irradiation. (**B**) labeling of cell proliferation by CCK-8 after irradiation. After 8 Gy irradiation, when cells changed into normal medium, treatment with rapamycin significant increased cell proliferation compared with control group (irradiated HSG cells without rapamycin treatment) ($^{*}P < 0.05$; $^{**}P < 0.01$; $^{***}P < 0.001$). (**C**) analysis of cell cycle 24 h after irradiation by flow cytometry. The percentage of rapamycin treated irradiated HSGs in G2 stage was higher than control (irradiated HSG cells without rapamycin treatment) ($^{*}P < 0.05$; $^{**}P < 0.01$). (**D**) apoptosis assay of HSG cells 24 h after irradiation by AnnexinV. Rapamycin treated irradiated HSGs significantly decreased cell apoptosis. (**E**) western blot analysis of γH2AX and MnSOD expression in HSG cells after irradiation. Rapamycin treatment cells (IR + Rap) decreased the expression of DNA damage marker γH2AX compared with irradiated HSG cells (IR), meanwhile, increased the expression of ROS scavenger MnSOD (Control represents non-irradiated and no rapamycin treated HSG cells).