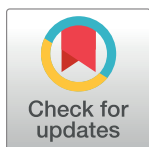


CORRECTION

Correction: KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species

The *PLOS ONE* staff

[Fig 3](#) is incorrect. The authors have provided a corrected version here. The publisher apologizes for the error.



OPEN ACCESS

Citation: The *PLOS ONE* staff (2019) Correction: KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. *PLoS ONE* 14(11): e0223089. <https://doi.org/10.1371/journal.pone.0223089>

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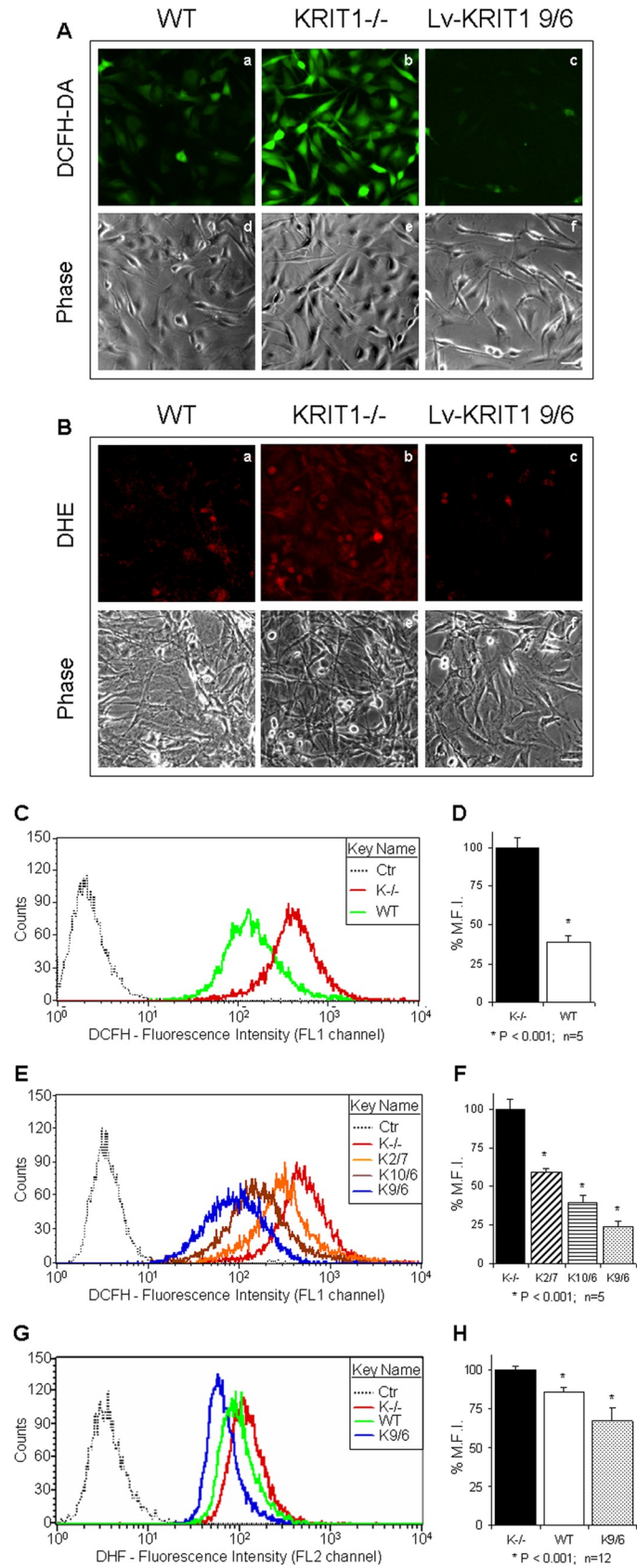


Fig 3. KRIT1 regulates steady-state levels of intracellular ROS. A–B) Qualitative detection of the steady-state levels of intracellular ROS by fluorescence microscopy. Wild-type (WT), KRIT1^{-/-} (KRIT1^{-/-}) and KRIT1-transduced (Lv-KRIT1 9/6) MEFs grown under standard conditions were analyzed by fluorescence microscopy 20 min after the addition of the cell-permeable redox-sensitive fluorogenic probe DCFH-DA (A) or DHE (B). The images were taken with a fixed short exposure time and a high fluorescence intensity threshold value to avoid saturation, and are representative of several independent experiments. Notice that KRIT1^{-/-} cells (panels b) showed significantly more intense fluorescent signals than WT cells (panels a), indicating that they contained higher levels of ROS. Conversely, ROS levels in KRIT1^{-/-} cells were reduced to near WT levels upon KRIT1 re-expression by lentiviral infection (panels c). Scale bar represents 50 μ m. **C–H.** Quantitative determination of the steady-state levels of intracellular ROS by FACS analysis. Wild-type (WT), KRIT1^{-/-} (K^{-/-}) and three distinct KRIT1^{-/-} cell populations re-expressing KRIT1 at low, medium and high levels, respectively [Lv-KRIT1 2/7 (K2/7), 10/6 (K10/6) and 9/6 (K9/6)], were grown under standard conditions and analyzed by FACS 20 min after the addition of the DCFH-DA (C–F) or DHE (G,H) probes. Representative flow cytometry profiles (C,E,G) and quantitative histograms of the mean fluorescence intensity (M.F.I.) values (D,F,H) of $n \geq 5$ independent FACS experiments are shown. M.F.I. values were normalized to spontaneous fluorescence of control cells untreated with the fluorogenic probes (Ctr) and expressed as percentage of KRIT1^{-/-} (K^{-/-}) cells (\pm SD). * $P < 0.001$ versus KRIT1^{-/-} cells. Notice that KRIT1^{-/-} cells displayed the highest content of intracellular ROS, whereas the re-expression of KRIT1 caused a significant, expression level-dependent decrease in intracellular ROS levels.

<https://doi.org/10.1371/journal.pone.0223089.g001>

Reference

1. Goitre L, Balzac F, Degani S, Degan P, Marchi S, Pinton P, et al. (2010) KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. PLoS ONE 5(7): e11786. <https://doi.org/10.1371/journal.pone.0011786> PMID: 20668652