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Correction: Anti-inflammatory effect and mechanism of stytontriterpene D on RAW264.7 cells and zebrafish

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stytontriterpene D, anti-inflammatory, mechanism, RAW 264.7 cell, zebrafish

A Correction on

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There was a mistake in [Figures 6–8](#) as published. An error was made in the concentrations. The corrected [Figures 6–8](#) appear below.

There was a mistake in the caption of [Figure 8](#) as published. It was erroneously stated that the control group were treated with a DEX solution, rather than a copper sulfate solution. As such, DEX and copper sulfate were reversed. The corrected caption of [Figure 8](#) appears above.

TNF- α was mistakenly written as TNF- κ and NF- κ B was mistakenly written as NF- α B.

A correction has been made to the section **Abstract**, Paragraph Number 2:

“Methods: *In vitro*, we evaluated the toxicity of STD to RAW 264.7 cells using the CCK8 method and detected the reactive oxygen species (ROS) and nitric oxide (NO) contents in cells using diacetyldichlorofluorescein (DCFH-DA) and the Griess method. We detected the levels of interleukin-6 (IL-6), interleukin-1 β (IL-1 β), tumor necrosis factor- α (TNF- α), inducible nitric oxide synthase (iNOS), interleukin-10 (IL-10), and arginase-1 (ARG1) via enzyme-linked immunosorbent assay and measured the expression of related proteins in the NF- κ B pathway via western blotting. The toxicity of STD to AB zebrafish was detected *in vivo*, and the recruitment of neutrophils and macrophages was evaluated in tail cut-induced and copper sulfate-induced zebrafish inflammation models. We used quantitative real-time polymerase chain reaction to study the expression of inflammation-related genes in zebrafish with inflammation induced by copper sulfate.”

Throughout **Sections 2.12–2.13**, the concentration of DEX was mistakenly written as 61.2 μ M, while the correct concentration is “DEX (51.0 μ M)”.

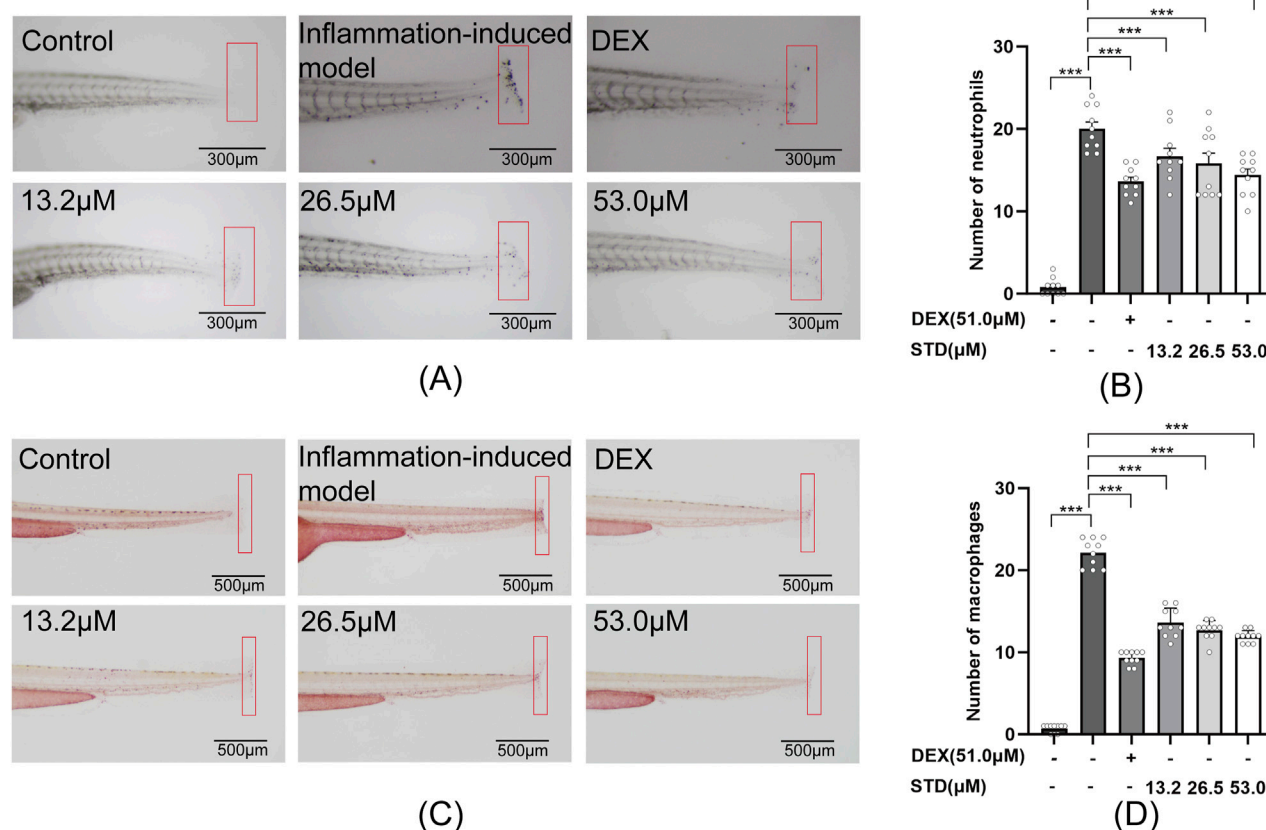


FIGURE 6

Effect of STD on neutrophils and macrophages recruitment in zebrafish after tail transection ($n = 10$). (A) The count of neutrophils in the zebrafish tail at $\times 40$ magnification, (B) neutrophil numbers in the zebrafish tail, (C) macrophage recruitment in the zebrafish tail at $\times 30$ magnification, and (D) the quantity of macrophages in the zebrafish tail. Data are shown as average \pm SEM values of at least three separate experiments. *** $P < 0.001$ versus the inflammation-induced model group by one-way ANOVA with Tukey's test.

All instances have been corrected to “DEX (51.0 μ M)” in the following sections:

Materials and methods, 2.12 Tail transection-induced inflammatory model in zebrafish, sub-sections 2.12.1 and 2.12.2; and Materials and methods, 2.13 Copper sulfate-induced inflammatory model in zebrafish, sub-sections 2.13.1 and 2.13.2.

Throughout Section 2.13, the unit for copper sulfate was erroneously written as 1.6 μ M, rather than “10.0 μ M”. All instances have been corrected to “10.0 μ M copper sulfate” in the following sections: **Materials and methods**, 2.13 Copper sulfate-induced inflammatory model in zebrafish, sub-sections 2.13.1 and 2.13.2.

STD was mistakenly written as DE.

A correction has been made to the section **Discussion**, Paragraph number 2. The corrected sentence is:

“We found that STD significantly reduced the expression of LPS induced M1 phenotype (IL-1 β , IL-6, TNF- α , and iNOS) in a concentration dependent manner, while STD significantly increased the expression of M2 phenotype (ARG1 and IL-10) mRNA, exerting anti-inflammatory effects by modulating macrophage polarization.”

The original article has been updated.

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