



Erratum: Inhibition of Gasdermin D-Mediated Pyroptosis Attenuates the Severity of Seizures and Astroglial Damage in Kainic Acid-Induced Epileptic Mice

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An Erratum on

Inhibition of Gasdermin D-Mediated Pyroptosis Attenuates the Severity of Seizures and Astroglial Damage in Kainic Acid-Induced Epileptic Mice

by Xia, L., Liu, L., Cai, Y., Zhang, Y., Tong, F., Wang, Q., Ding, J., and Wang, X. (2022). *Front. Pharmacol.* 12:751644. doi:10.3389/fphar.2021.751644

Due to a production error, there was a mistake in **Figure 1**, **Figure 2** and **Figure 3** as published. The images for **Figure 1**, **Figure 2** and **Figure 3** were replaced with the images for **Supplementary Figure S1**, **Supplementary Figure S2**, and **Supplementary Figure S3**, respectively. The correct images for **Figure 1**, **Figure 2** and **Figure 3** appear below.

The publisher apologizes for this mistake. The original version of this article has been updated.

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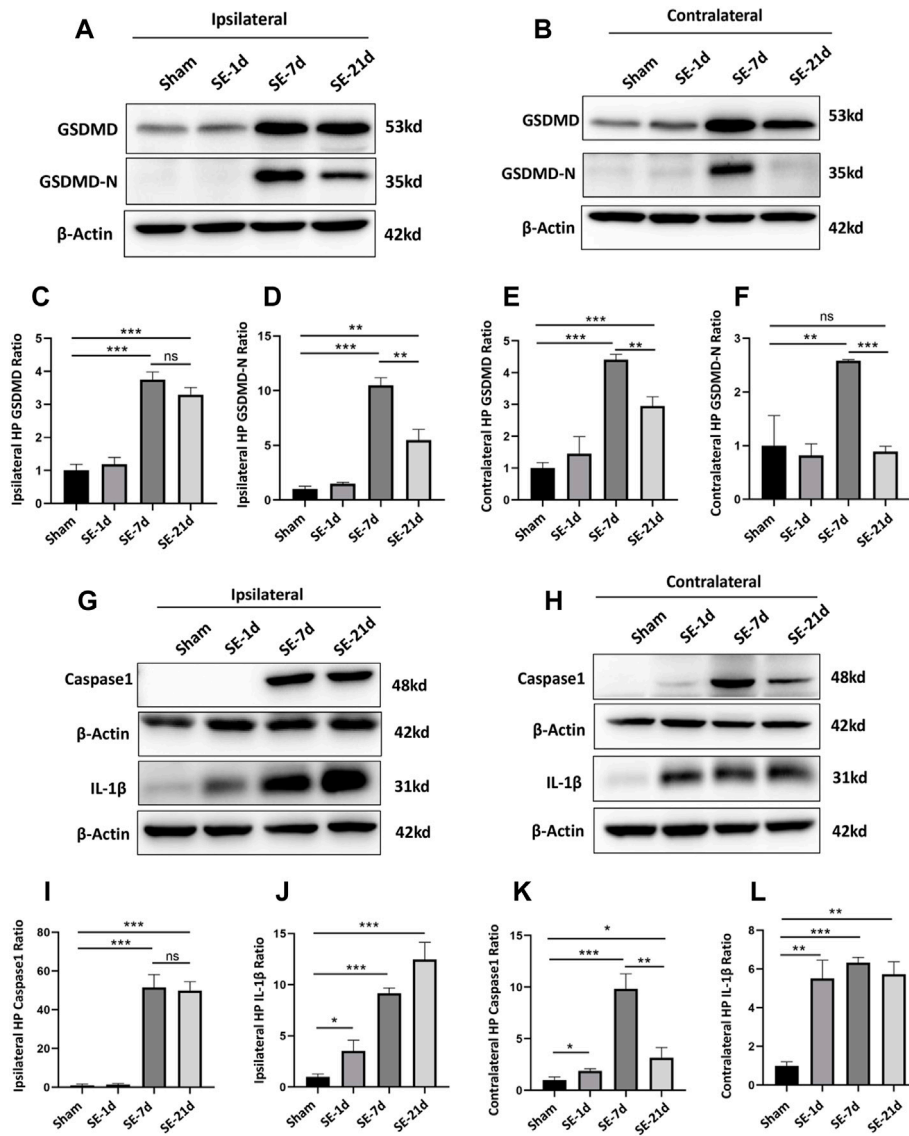


FIGURE 1 | Expression of GSDMD and pyroptosis-related molecules was significantly increased after kainic acid-induced SE. **(A,B)** WB bands of GSDMD, GSDMD-N, and β-actin proteins in the ipsilateral and contralateral hippocampus. **(C-F)** Statistical analyses of GSDMD, GSDMD-N, and β-actin proteins in the ipsilateral and contralateral hippocampus. **(G,H)** WB bands of caspase-1, IL-1β, and β-actin proteins in the ipsilateral and contralateral hippocampus. **(I-L)** Statistical analyses of caspase-1, IL-1β, and β-actin proteins in the ipsilateral and contralateral hippocampus ($n = 3$ in each group, $*p < 0.05$, $**p < 0.01$, and $***p < 0.001$).

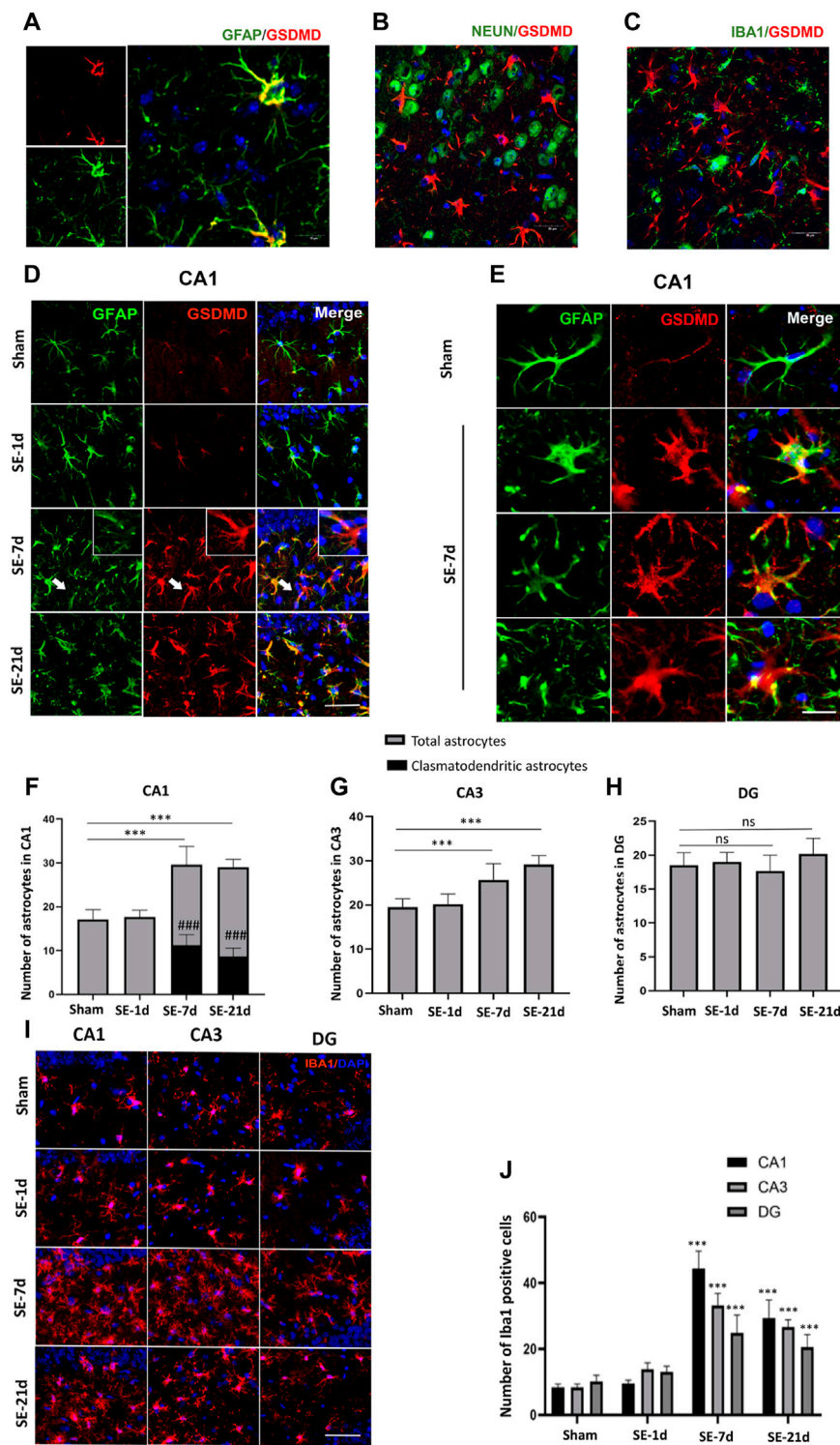


FIGURE 2 | Clasmotodendritic astrocytes co-labeled with GSDMD after SE. **(A–C)** Representative images of GSDMD (red)/GFAP (green), GSDMD (red)/NeuN (green), and GSDMD (red)/Iba-1 (green) staining in hippocampal slices from mice at day 7 after kainic acid injection. **(D)** Microphotographs of GSDMD (red) and GFAP (green) staining in the CA1 region of the hippocampus in the sham, SE-1d, SE-7d, and SE-21d groups (bar = 50 μ m). **(E)** Typical GSDMD-positive clasmotodendritic astrocytes in the CA1 region of the hippocampus at 7 days after SE (bar = 12.5 μ m). **(F–H)** Statistical analyses of the number of GSDMD-positive clasmotodendritic astrocytes and total astrocytes in the CA1, CA3, and DG regions ($n = 3$ in each group, asterisks represent the total astrocytes in comparison with the sham group, * $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$; well number represents the clasmotodendritic astrocytes in comparison with the sham group, ### $p < 0.001$). **(I)** Microphotographs of Iba1 (red) staining in the CA1, CA3, and DG regions of the hippocampus in the sham, SE-1d, SE-7d, and SE-21d groups. **(J)** Statistical analyses of the number of Iba1-positive cells in the CA1, CA3, and DG regions ($n = 3$ in each group, asterisks represent the comparison with the sham group, * $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$).

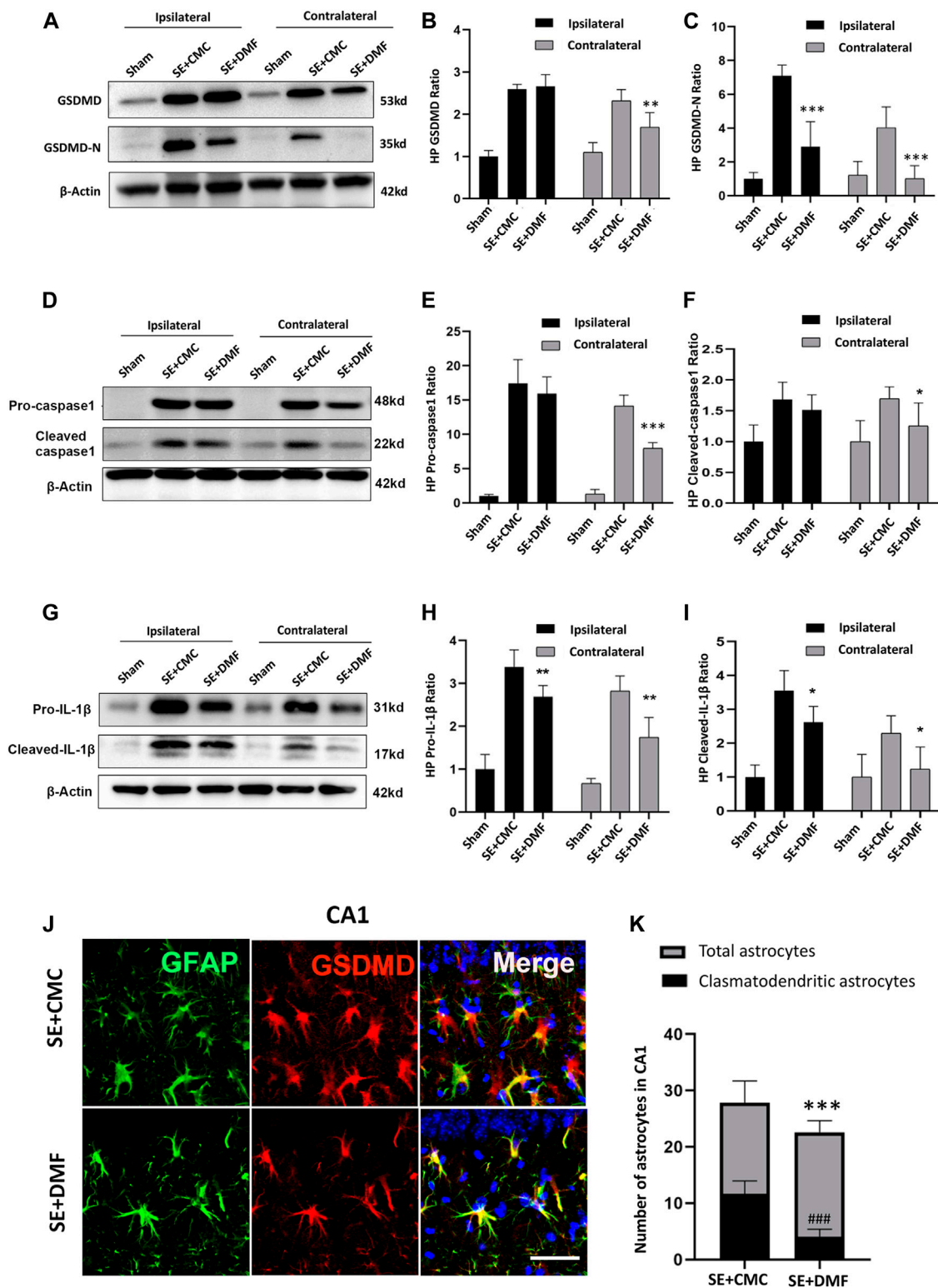


FIGURE 3 | DMF intervention inhibited the expression of GSDMD-N and attenuated astrocytic clasmotodendrosis. (A–C) WB bands and statistical analyses of GSDMD, GSDMD-N, and β-actin proteins in the ipsilateral and contralateral hippocampus in the SE + CMC and SE + DMF groups (n = 6 in each group, asterisks represent the comparison with the SE + CMC group, *p < 0.05, **p < 0.01, and ***p < 0.001). (D–F) WB bands and statistical analyses of pro-caspase-1, cleaved-caspase1, and β-actin proteins in the ipsilateral and contralateral hippocampus (n = 6 in each group, asterisks indicate the comparison with the SE + CMC group, (Continued)

FIGURE 3 | * $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$). **(G–I)** WB bands and statistical analyses of pro-IL-1 β , cleaved-IL-1 β , and β -actin proteins in the ipsilateral and contralateral hippocampus ($n = 6$ in each group, asterisks indicate the comparison with the SE + CMC group, * $p < 0.05$, ** $p < 0.01$, and *** $p < 0.001$). **(J)** Microphotographs of GSDMD (red) and GFAP (green) staining in the CA1 region of the hippocampus in the SE + CMC and SE + DMF groups. **(K)** Statistical analyses of the number of GSDMD-positive clasmatodendritic astrocytes and total astrocytes in the CA1 region in the SE + CMC and SE + DMF groups ($n = 3$ in each group, asterisks represents the total astrocytes in comparison with the sham group, *** $p < 0.001$; well number represents the clasmatodendritic astrocytes in comparison with the sham group, ### $p < 0.001$).