

Correction to “Rescue of Synaptic Phenotypes and Spatial Memory in Young Fragile X Mice”

The above article [Sun M-K, Hongpaisan J, and Alkon DL (2016) *J Pharmacol Exp Ther*, **357**:300–310; DOI: <https://doi.org/10.1124/jpet.115.231100>], the authors discovered the WB panel in Figure 3C was accidentally mistaken (from an original TB image) during the figure preparation process and used as Figure 3C. This error does not change the results and conclusions of the paper. The corrected Figure 3 and caption are provided below.

The PDF and HTML versions of the article have been corrected.

The authors apologize for any inconvenience caused by this error.

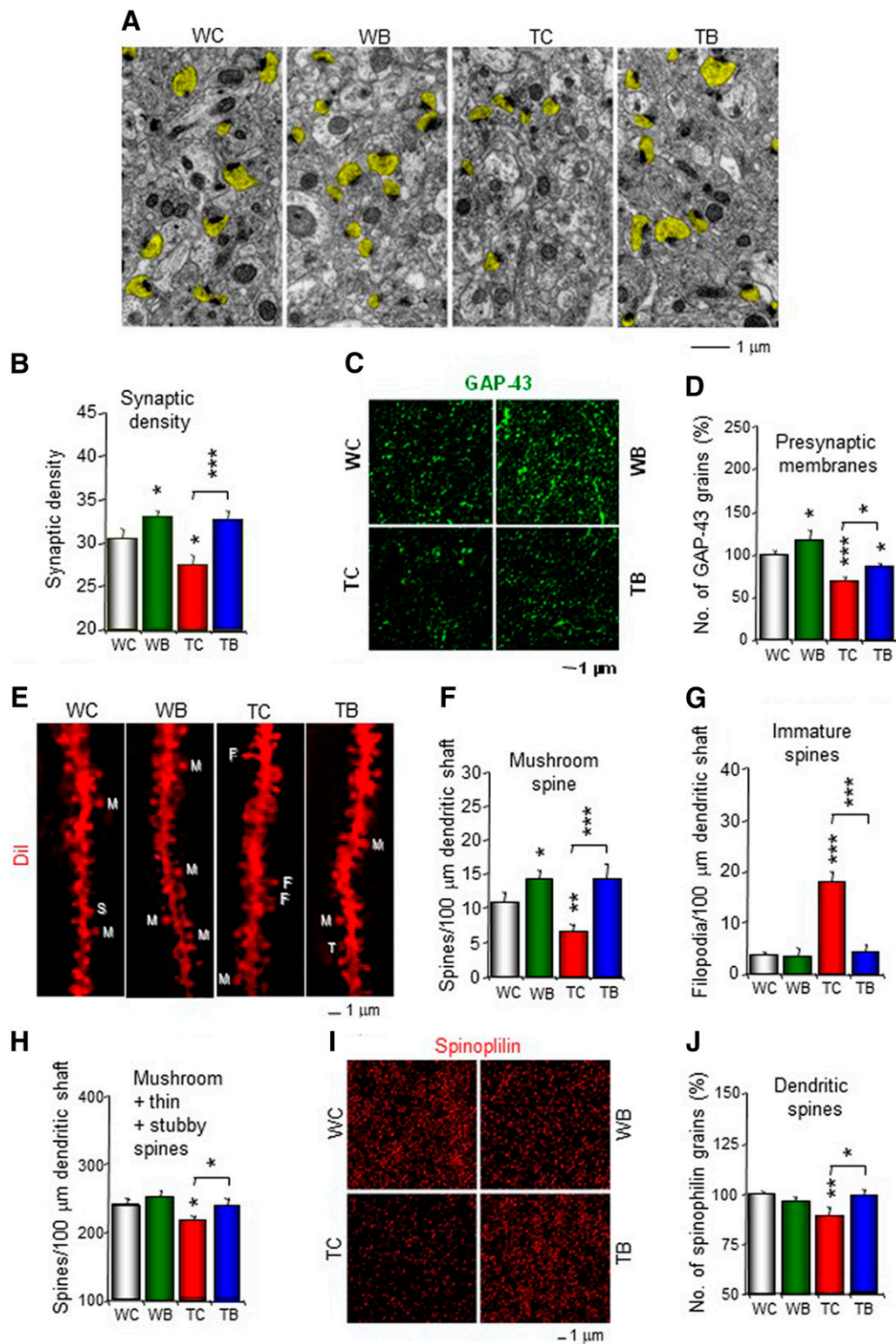


Fig. 3. Bryostatin-1 increased synaptic density and induced memory-dependent mushroom dendritic spine formation and dendritic spine maturation in the apical dendrites of the hippocampal CA1 pyramidal neurons in young fragile X mice (at age 12 weeks). Mice were treated with bryostatin-1 or drug vehicle and behaviorally trained for spatial memory. (A and B) Electron microscopy (yellow highlighted dendritic spines with synapses) (A) was used to determine the densities of synapses (per $14 \times 14 \times 0.09 \text{ mm}^3$ of stratum radiatum) (B). (C and D) Confocal immunohistochemistry of GAP-43 accumulated in presynaptic membranes (C) and quantification presynaptic membranes per $45 \times 45 \times 0.6 \text{ mm}^3$ volume of the CA1 stratum radiatum (D). Bryostatin-1 increased the presynaptic membrane (GAP43 granules) density in wild-type mice (WB), compared with wild-type control (WC), and bryostatin-1 (TB) prevented the presynaptic membrane loss in fragile X transgenic control mice (TC). (E) Confocal laser scanning micrograph of DiI-stained dendritic spines on dendrites shafts. (F–H) Numbers (per 100-μm dendritic shaft) of mushroom spines (F), immature spines or filopodia (G), and mushroom, thin, and stubby together (H). (I and J) Immunohistochemistry and confocal microscopy of the dendritic spine-specific protein spinophilin (I) were used to determine the density of dendritic spines (per $45 \times 45 \times 0.6 \text{ mm}^3$ of stratum radiatum).