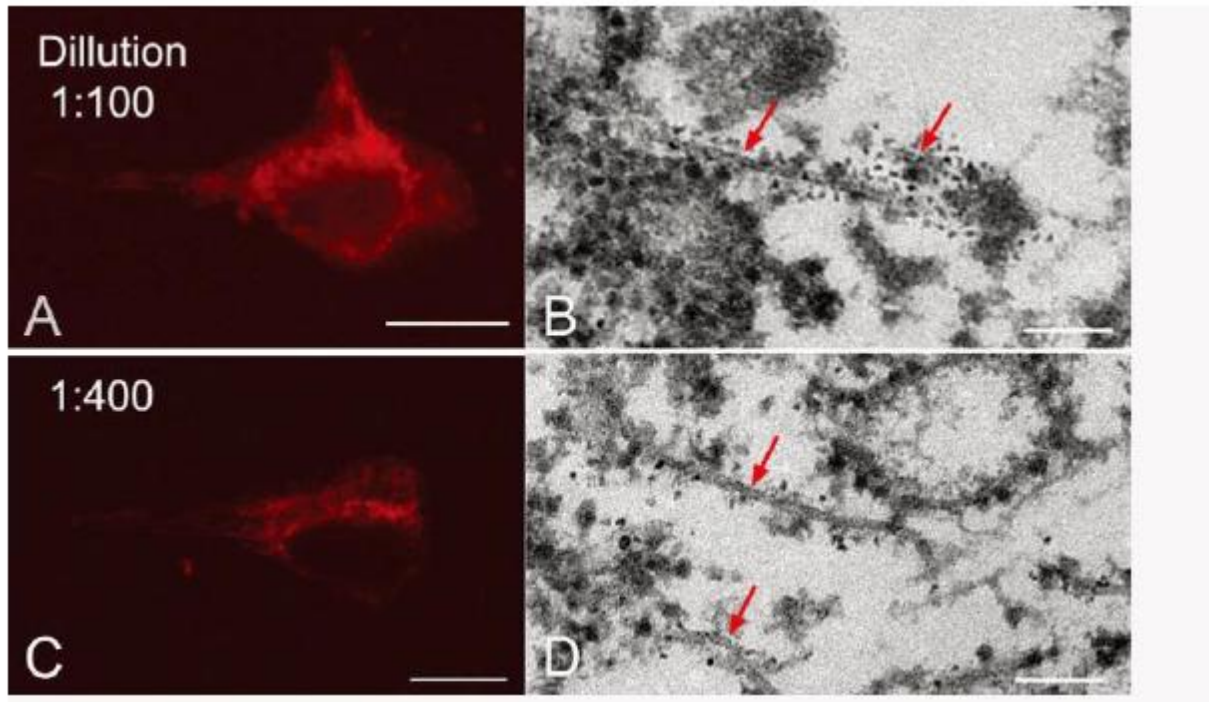




Additional file 1: Figure S1 Optimal of dilution of QD-conjugated secondary antibodies for ultrastructural immunolabeling.

Immunolabeling with an anti-PHF tau (AT8, 1:700) is visualized with Quantum dot (QD) 655-conjugated secondary antibody at a dilution of 1:100 (A, B) or 1:400 (C, D). At 1:100, its fluorescence signal (A) was intense, while QD labeling on fibrils (B, arrows) was so excessive that may mask underlying ultrastructure. At 1:400, its QD labeling on fibrils (D: arrows) was adequate, while its fluorescent signal was weak. Therefore, colabeling with Alexa488 was performed to ensure intense fluorescent signal to reconstruct 3D data set. CBD (case 3). Scale bars = 10 μ m (A, C), 10 nm (B, D).