

Supplementary Figure S7

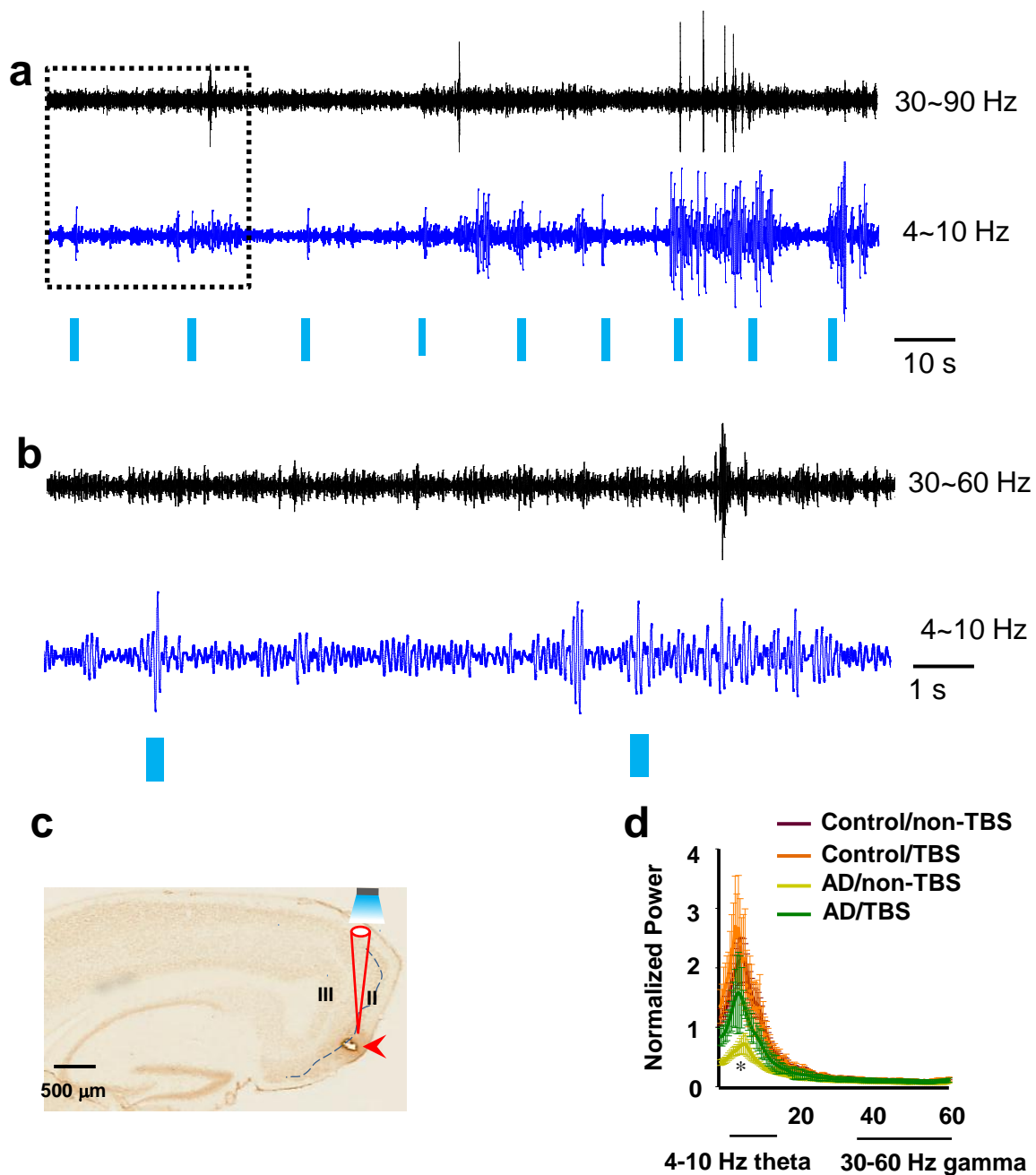


Figure S7. Application of TBS enhances theta oscillation in CA1 neurons. (a) TBS generates and enhances theta oscillation. Representative recordings of LFP (top, black) and theta waves (bottom, blue) in the CA1 hippocampus in response to blue light illuminations (blue bars) of ECII_{PN} in AD mice at 120 days old of age. (b) Representative recordings show the boxed fragments in a. (c) Arrow head in a brain section stained with NeuN protein marks electrolytic lesion location, showing the fiber located in ECII region. (d) Power spectral densities of theta and gamma oscillations from AD/ECII_{PN}^{ChR2+} (AD) and control/ECII_{PN}^{ChR2+} (control) mice with (TBS) or without (non-TBS) TBS treatment. Data are mean ± SEM (n = 9 mice/group, **p* < 0.001, Student *t*-tests).