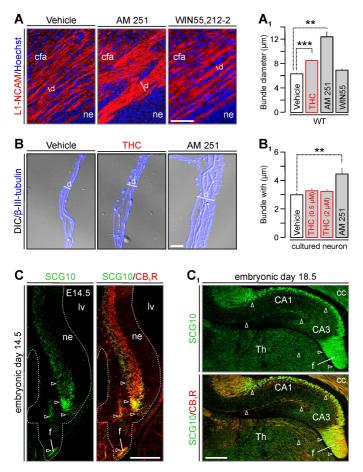
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## (1 column)

- Fig. S2 Pharmacological dissection of CB<sub>1</sub>R function evoking corticofugal axon bundling and SCG10 localization in hippocampus. (A) AM 251 (5 mg/kg) and WIN55,212-2 (5 mg/kg) were administered daily from E5.5-E17.5, fetuses harvested one day later and processed (Keimpema et al, 2010). Corticofugal axon fasciculation was assessed by quantitative L1-NCAM histochemistry. The cross-section thickness ("diameter" (d)) of primary fascicles was determined in n = 4.7 male fetuses/group from independent pregnancies (> 300 measurements/group). AM 251 but not WIN55,212-2 induced the coalescing of axons into enlarged fascicles.  $(A_1)$  Quantitative morphometry including data on THC effects shown in Fig. 2A<sub>1</sub>. (B) Cortical neurons exposed to THC or AM 251 recapitulated the *in vivo* axonal phenotype when cultured in the presence of the drugs indicated for 24h. ( $B_1$ ) Note that AM 251 was particularly efficacious in promoting the alignment of multiple neurites (n = 9-13) observations/ group from n > 2 simultaneously processed samples in duplicate experiments).  $(C,C_1)$  SCG10 co-localized with CB<sub>1</sub>Rs in the primordial hippocampus including migrating neurons (open arrowheads, c) on E14.5, and axons (open arrowheads in e.g. fimbria (f)) on E18.5. Abbreviations: Supplementary Information text. Data were expressed as means  $\pm$  s.e.m.; \*\*\*p < 0.001, \*\*p < 0.01. Scale bars = 350 µm (C,C<sub>1</sub>), 50 µm (A), 5 µm (B).
- Keimpema E, Barabas K, Morozov YM, Tortoriello G, Torii M, Cameron G, Yanagawa Y, Watanabe M, Mackie K, and Harkany T (2010) Differential subcellular recruitment of monoacylglycerol lipase generates spatial specificity of 2-arachidonoyl glycerol signaling during axonal pathfinding. *J Neurosci* **30**: 13992-14007