Fig 5

Supplementary Figures

NABs, but not HABs, displayed functional integration of newly born neurons

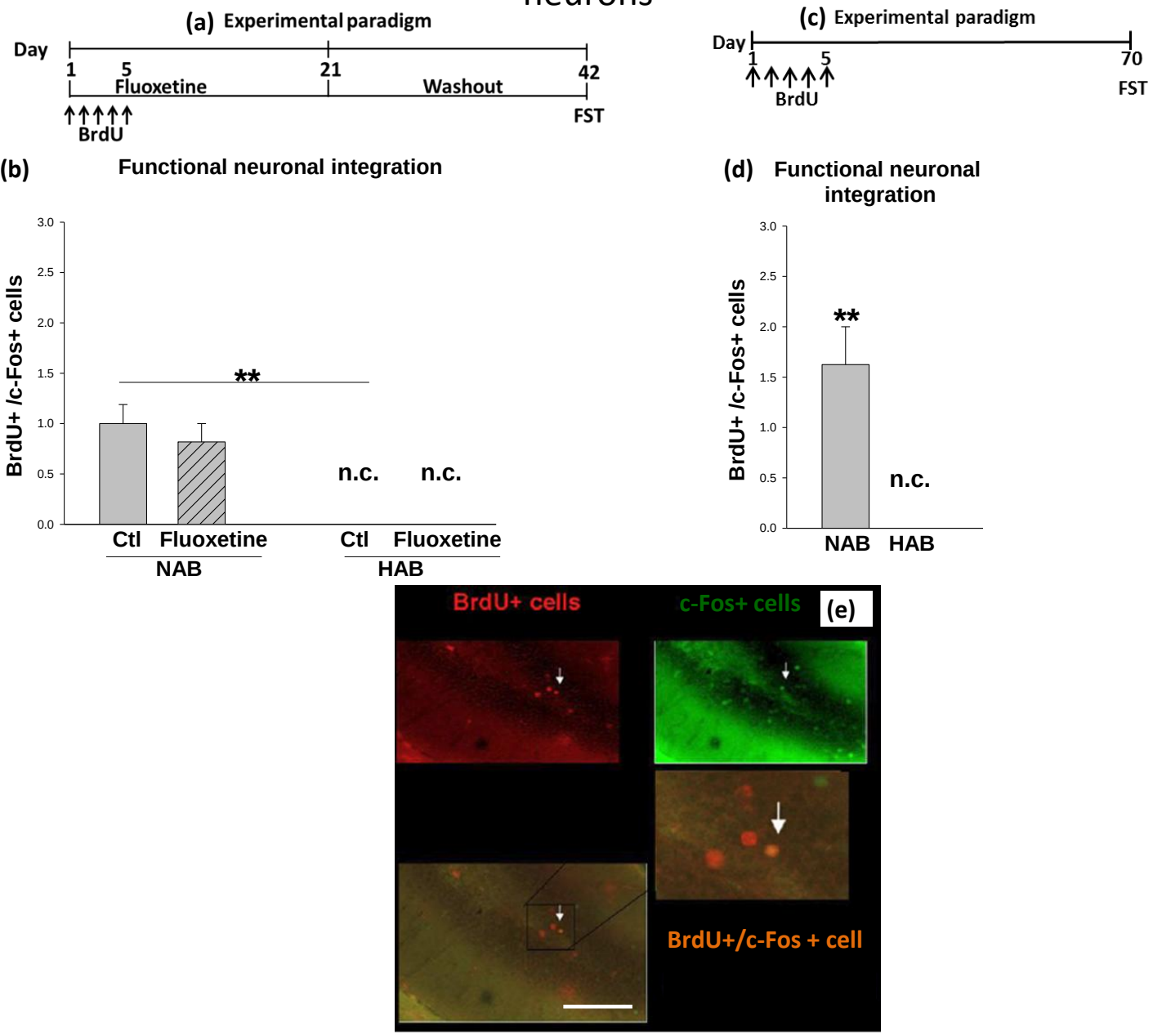

Fig 5. **BrdU+ cells were colocalized with c-Fos+ cells in NABs but not HABs. (a)** Experimental paradigm: BrdU was adminstered for 5 days and FST was conducted at the end of 6 weeks (42 days). **(b)** A few exmaples of BrdU+ cells which were colocalized with c-Fos+ cells were found, indicating activation of the newly born neurons in NABs but not HABs upon forced swim challenge. A 2- way ANOVA revealed that NABs showed a higher number of colocalizations ($p<0.01$ vs HABs). However, fluoxetine failed to alter the functional activation of newly born cells in either of the groups ($p>0.05$). **(c)** Experimental paradigm: BrdU was administered for 5 days and FST was conducted at the end of 10 weeks (70 days). **(d)** Prolonging the time period of integration of newly born cells to 10 weeks still did not reveal any example of BrdU/c-Fos colocalizations. Unpaired t-test showed that NABs had a higher number of BrdU/c-Fos colocalizations ($p<0.01$, vs HABs). **(e)** An example of a BrdU+ cell also expressing c-Fos. Scale bar 600 µm . Magnified view in inset. **$p<0.01$. n=7-9/ group, n.c.: no colabelings detected. Data are represented as mean + s.e.m.