

How you mix cells changes the brain

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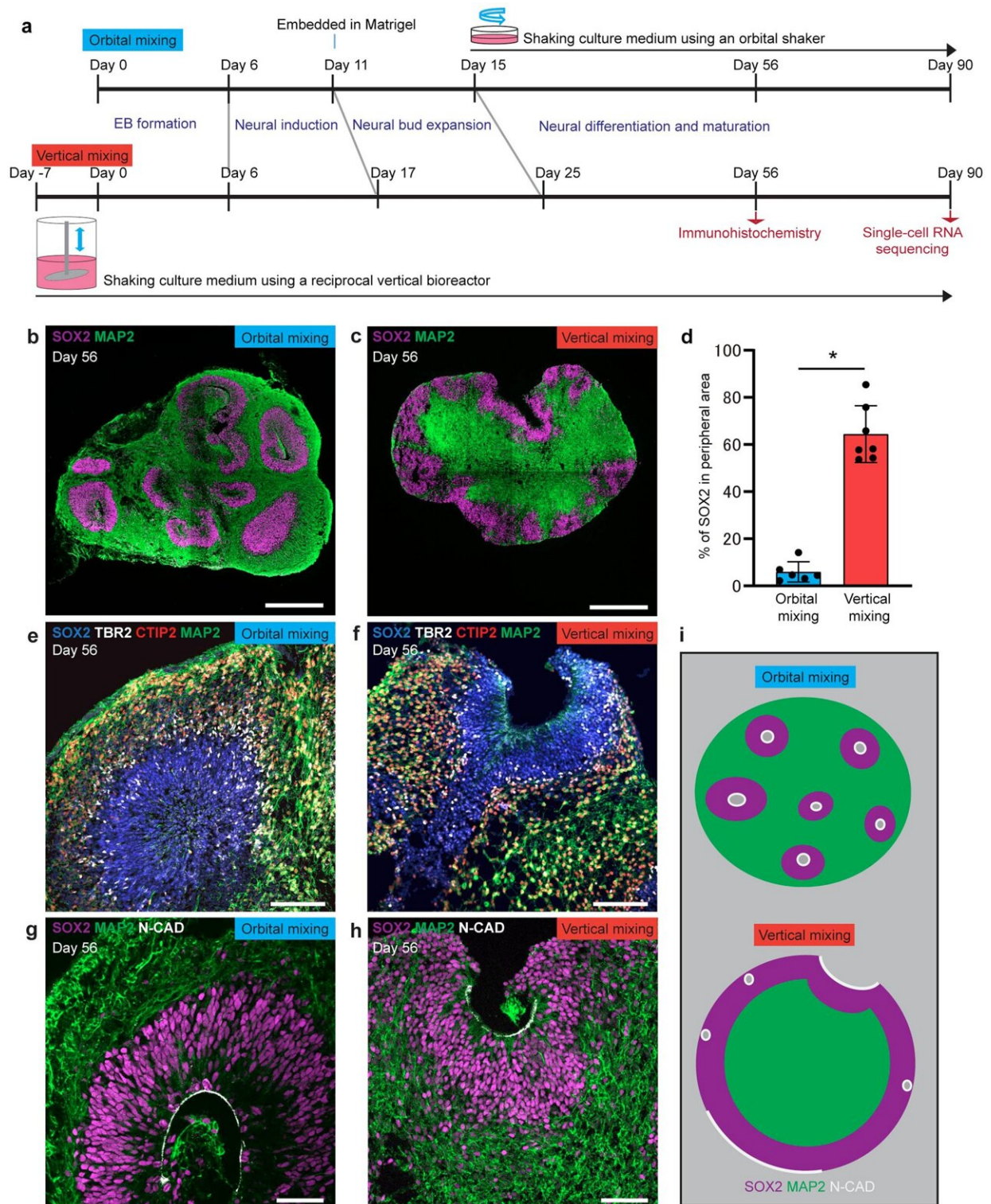


Fig. 1: Brain organoid generated by vertical mixing showed inverted structure in comparison with brain organoid generated by orbital mixing. a Schematic

diagram of conditions used to induce brain organoid by orbital mixing (upper schema) and by vertical mixing (lower schema). b, c Immunostaining for neural progenitor (SOX2, magenta) and neuron (MAP2, green) in brain organoid generated by orbital mixing (b) or vertical mixing (c) on Day 56. d Quantification of SOX2-positive area in the peripheral region of brain organoid on Day 56. The peripheral region was defined as 100 μm inside from the edge of brain organoid. Brain organoid from vertical mixing showed higher percentage of SOX2-positive area in peripheral region in comparison with brain organoid from orbital mixing. Data represent mean \pm SD (n = 6 for brain organoids by orbital mixing, n = 7 for brain organoids by vertical mixing). Difference between the two conditions was analyzed by Student's two-tailed t-test (*p

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