

# **Time-lapse imaging reveals highly dynamic structural maturation of postnatally born dentate granule cells in organotypic entorhino-hippocampal slice cultures**

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**Supplementary Fig. S1. Time-lapse imaging of RV-labeled postnatally born GCs.**

Successful RV-labeling of postnatally born GCs in OTCs enabled live imaging of individual cells over extended periods of time. Daily time-lapse imaging sequences were performed between 8-28 dpi, up to 20 consecutive days. Three-dimensional computer reconstructions enabled detailed analysis of morphological development of individual newborn GCs. Based on immunostainings of fixed OTCs on 28 dpi, the location of the hippocampal fissure could be determined *post hoc* (dotted line). Scale bar: 10  $\mu\text{m}$ .

