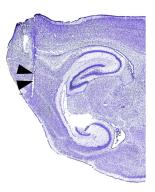
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Coherence among Head Direction Cells

before Eye Opening in Rat Pups

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Rat# 14389 (R), PaS





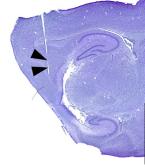


Rat# 19477 (L), PrS

Rat# 14376 (R), PaS

Rat# 15184 (R), PaS

Rat# 19438 (R), PrS/PaS



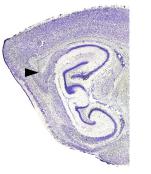
Rat# 19437 (L), PrS



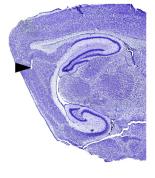
Rat# 14608 (R), PrS

Rat# 14246 (L), MEC

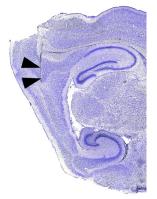
1.0 mm





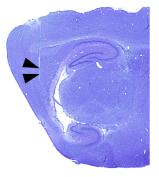


Rat# 19109 (R), PrS/PaS



Rat# 19478 (L), PrS





Rat# 19698 (R), PrS

Figure S1, related to Figure 1. Nissl-stained sagittal brain sections showing recording locations in PrS (seven rats), PaS (four rats), the border area between PrS and PaS (two rats) and in the deep layers of MEC (one rat). Rat number (five digits), hemisphere (L is left and R is right) and brain area are indicated.

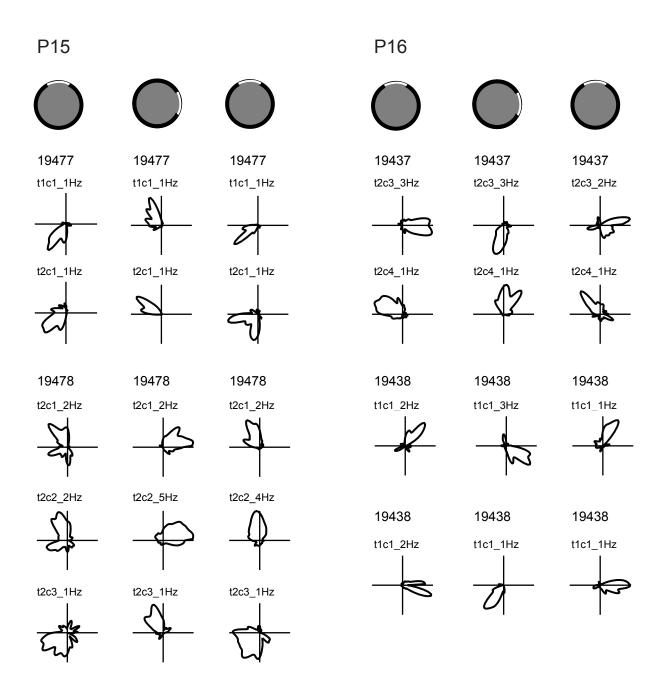


Figure S2, related to Figure 2. Visual cue-based rotation of head direction cells shortly after eye opening. Examples of three consecutive trials where the cue card in the recording arena was rotated 90 degrees clockwise in the middle trial. Schematic at the top shows position of cue card. Directional rate distribution is shown for 5 head direction cells from P15 and 4 head direction cells from P16. Rat number (five digits) is indicated for each set of trials. Cell number (t = tetrode, c = cell), and peak firing rates are indicated above each cell. All head directions were covered during all recording trials.