



Supplemental Figure 3

Population characteristics of fPTNs, sPTNs, and nold neurons during locomotion on the flat surface, ladder, and with barriers. Only neurons tested with barriers are shown.

Activity of fPTNs (A, D, G), sPTNs (B, E, H), and nold neurons (C, F, I) during locomotion on the flat surface (A, B, C), ladder (D, E, F), and with barriers (G, H, I).

A1 - I1: Phase distribution of PEFs. Neurons with a 1-PEF and 2-PEF pattern are rank ordered separately. 1-PEF neurons are shown at top of each graph, 2-PEF neurons are shown at bottom. In each group, neurons firing earlier in the cycle are plotted at top of the group. Gray bars in A1, B1, D1, E1, and H1 designate neurons whose activity was not stride-modulated. In C1, F1 and I1, nold neurons whose firing was not stride-modulated are not shown.

A2 - I2: Corresponding phase distribution of discharge frequencies.

A3 - I3: Proportion of neurons in their PEF in different phases of the step cycle during flat surface (A3 - C3), ladder (D3 - F3) and barriers (G3 - I3) locomotion.

A4 - I4: The distribution of the mean firing rate during the stride on the flat surface (A4 - C4), ladder (D4 - F4), and with barriers (G4 - I4). In C4, F4 and I4, nold neurons whose firing was not stride-modulated are also included.

Designations as in Figures 5,6 and Supplemental Figure 2.