

Description of Additional Supplementary Files

Supplementary Movie 1: Video demonstration of electrostimulation experiment.

Supplementary Movie 2: Video demonstration of spontaneous floating patterns.

Supplementary Movie 3: Video demonstration of stimulated floating patterns.

Supplementary Movie 4: Video demonstration of stimulus location and locomotion direction.

Supplementary Movie 5: Video demonstration of reservoir computing method showing future prediction horizons and different reservoir configurations.

Supplementary Movie 6: Video demonstrating viable RC, showing how prediction can be improved during input stimulus that synchronizes with the animal's natural pulsatile period.