## **Description of Additional Supplementary Files**

**Supplementary Movie 1:** Multimodal enrichment cage setup. Mice are group-housed in a large cage containing a nest box, a running wheel, plastic tubes, Lego bricks, and Nestlets.

**Supplementary Movie 2:** Tactile enrichment cage setup. A singly housed mouse is exploring a standard-sized cage provided with a bead curtain and Nestlets.