Legend Video 1:

**Video 1: 3D surface rendering (Imaris) of the UV ablated neuron illustrated in Figure 4.**

The time-lapse video of the neuron depicted in Figure 4 is surface rendered using a visualization software (Imaris, Bitplane). It highlights the shrinking process of the ablated soma, followed by axonal fragmentation anterogradely towards the distal end of the cell.

Legend Supplementary Figure 1:

**Supplementary Figure 1: Optional agarose cast for long-time imaging.**

To avoid movement of the fish and the agarose during long term acquisition prepare a donut shaped circle of agarose along the edges in the middle of the glass-bottom 35 mm dish (A). Let the agarose set for ~10 min and transferred fish into the inner circle with a drop of agarose (B). Try to minimize the amount of agarose for the embedding (brush excess agarose to the outside after orientating the fish).