Supplementary Fig. 1

The protocol of depolarizing pulses applied to astrocytes does not modify their electrical membrane properties

We verified that the astrocyte stimulation protocol does not alter the electrical membrane properties of astrocytes by comparing holding current, input resistance and glutamate uptake current responses to PP stimulation before and after (5 min and 25 min) astrocyte stimulation.

(a) Representative traces of the astrocytic glutamate transporter current in response to PP stimulation before, 5 and 25 minutes after injection of a train of 50 depolarizing pulses (intensity: $105 \pm 4.9$ mV; duration: 500 ms; frequency: 0.5 Hz) in the same astrocyte. Each trace corresponds to the average of 10 successive recordings. Artefacts of stimulation have been removed.

(b) Normalized values (mean ± s.e.m.) of holding current (Hold. Cur.), input resistance (Input Res.) and amplitude (Ampli.) of the astrocytic glutamate transport current 5 and 25 minutes after astrocytic stimulation, expressed as % of the values in the control period before stimulation ($n = 10$). Paired $t$-test indicates no statistical difference.