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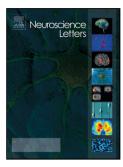
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### ACCEPTED MANUSCRIPT

# Importance of major histocompatibility complex of class I (MHC-I) expression for astroglial reactivity and stability of neural circuits *in vitro*

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#### **HIGHLIGHTS**

- MHC-I expression knocking-down decreases astrogliosis
- β2-microglobulin silenced astrocytes decrease gene expression of proinflammatory cytokines
- β2-microglobulin silencing results in astrocyte atrophy by decreased expression of GFAP

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