

Table S2**Bafilomycin inhibits release of ATP from cortical astrocytes *in situ*.**

Spontaneous excitatory purinergic currents (mEPSCs) were recorded in the pyramidal cortical neuron at of -80 mV in presence of 50 μ M NBQX, 30 μ M D-AP5 and 100 μ M picrotoxin in control and bafilomycin-treated neocortical slices. Treatment with bafilomycin A1 dramatically inhibited the baseline frequency of purinergic mEPSCs and prevented the TFLLR-induced burst of purinergic mEPSCs. The effects of bafilomycin on the frequency and amplitude of mEPSCs were statistically significant with $P < 0.01$ both for baseline conditions and TFLLR application.

	Control (n=12)	Bafilomycin (n =6)
Frequency of purinergic mEPSCs, Hz		
Baseline	0.63 \pm 0.08	0.053 \pm 0.019
After application of TFLLR	1.37 \pm 0.14	0.052 \pm 0.017
Amplitude of purinergic mEPSCs, pA		
Baseline	8.87 \pm 1.78	2.75 \pm 0.85
After application of TFLLR	5.72 \pm 1.44	2.78 \pm 0.69