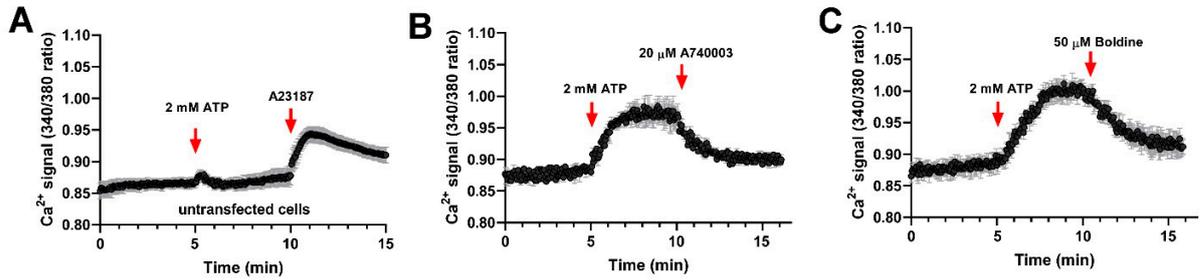
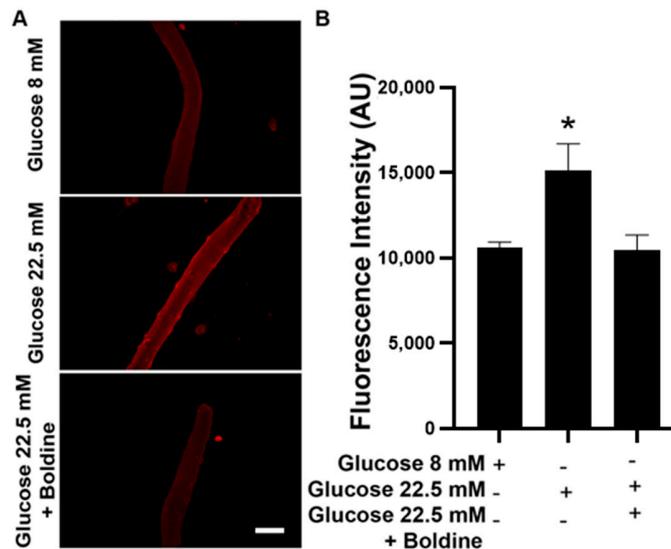


## Supplementary Figures



**Supplementary Figure S1.** Boldine blocks P2X<sub>7</sub> receptors. HeLa cells transiently transfected (B–C) or not (A) with mouse P2X<sub>7</sub> receptor bound to EGFP were loaded with Fura-2 and treated with 2 mM ATP to activate the purinergic receptor. After ATP stimulation, cells were treated with 20  $\mu$ M A740003 or 50  $\mu$ M boldine, as denoted by the arrows. The intracellular  $Ca^{2+}$  signal evaluated as the 340/380 rate was used as an indicator of the activity of P2X<sub>7</sub>Rs. The traces over time are averages  $\pm$  SEM of the  $Ca^{2+}$  signal in five different experiments. In each experiment, ~20 EGFP-positive cells were recorded over time.



**Supplementary Figure S2.** Cultured skeletal myofibers treated with high glucose for 24 h present greater NLRP3 levels. Relative levels of NLRP3 (red) were evaluated by immunofluorescence using confocal microscopy. Each value is the mean  $\pm$  SEM. (N = 4 mice and 12 myofibers were analyzed, for 22.5 mM 6 mice were used and 24 myofibers analyzed, for 22.5 mM 3 mice were used and 12 myofibers were analyzed, and for 22.5 M + Boldine 3 mice were used and 12 myofibers were analyzed). \*  $p < 0.05$  by ANOVA with Tukey's multiple comparisons test.