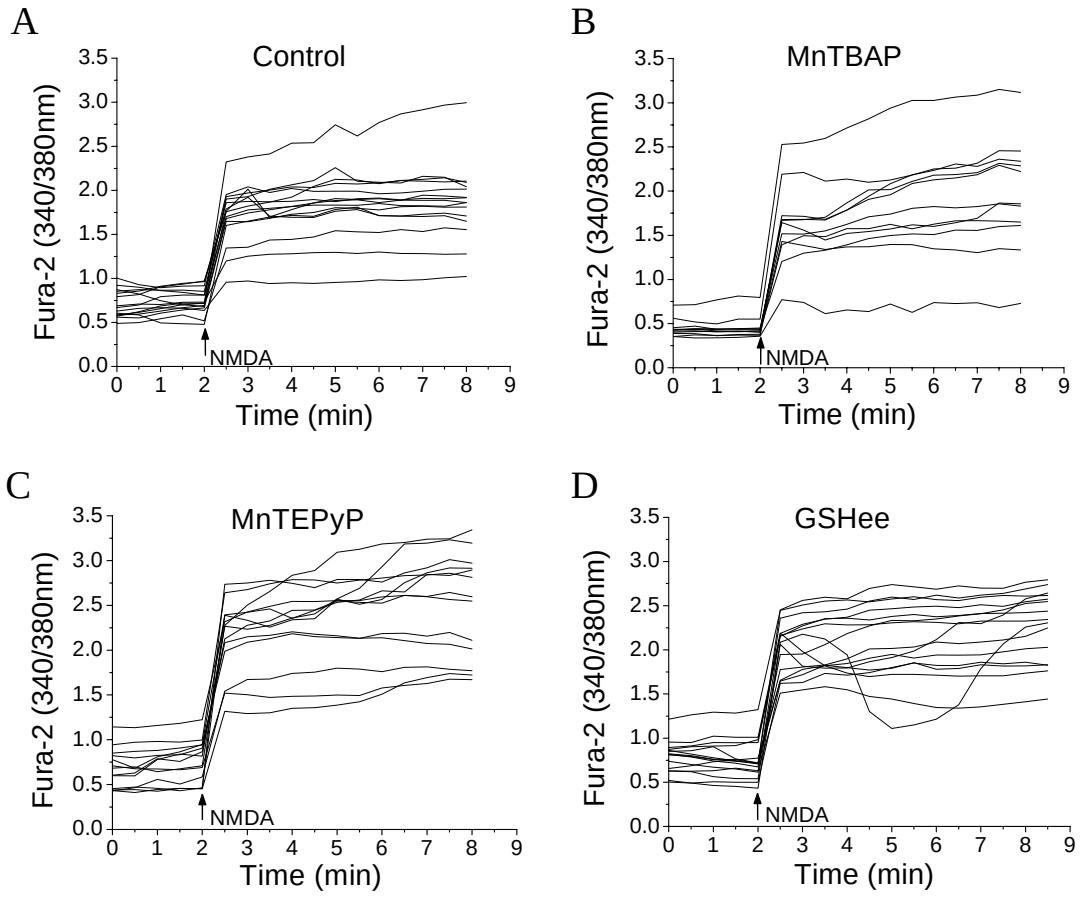
Figure legends for supplemental data:

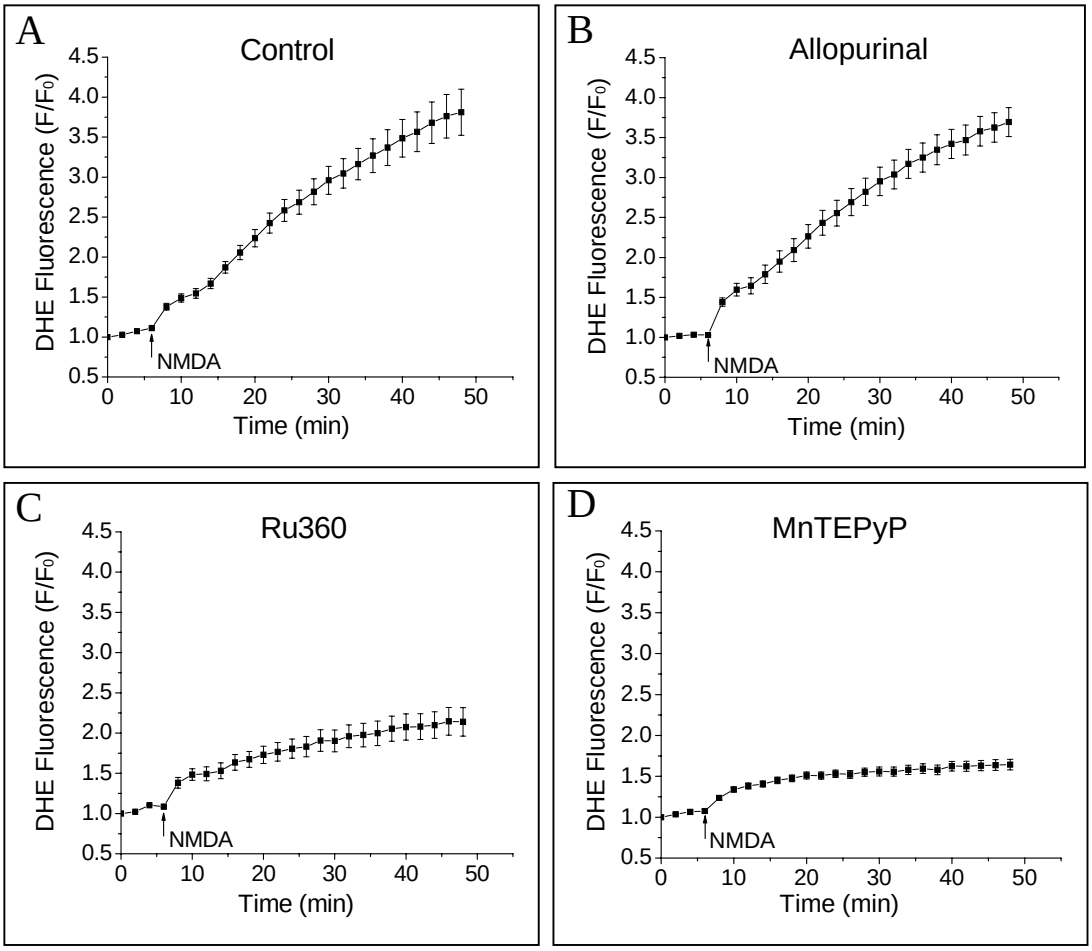
Supplemental figure 1. NMDA-induced increase in intracellular Ca^{2+} from cells pretreated with antioxidants. Intracellular Ca^{2+} was measured by fura-2 AM (4 μM). Neurons were treated with 100 μM NMDA and 10 μM glycine (indicated by arrows) in the absence or presence of three antioxidants: MnTBAP (200 μM), MnTEPyP (20 μM) and GSHee (1mM). Each trace represents the fluorescent change from a single neuron. There is no significant difference in NMDA-induced intracellular Ca^{2+} increase between control and antioxidants pretreated cells.

Supplemental figure 2. NMDA-induced ROS measurement by DHE while the dye was kept in the buffer during experiments. Quantitative analysis of DHE fluorescence during a 50-minute time course. NMDA treatments are indicated by arrows. A) control; B) with allopurinal (20 μM); C) with Ru360 (10 μM); D) with MnTEPyP (20 μM). Data are shown as the ratio of fluorescence at each time point (F) to time 0 min (F0). The trace represents the mean ± SEM of 20-30 cells.

Supplemental Figures



Supplemental Figure 1



Supplemental Figure 2