







## 18DV



![](_page_0_Figure_6.jpeg)

## Znt-1

![](_page_1_Figure_1.jpeg)

## 0 μM DFO 10 μM DFO

Command	Time (min)	Drug Injection	Cycles
Calibrate	-		-
Mix	3:00		
Wait	2:00	None	3
Measure	3:00		
Mix	3:00		
Wait	2:00	Oligomycin	3
Measure	3:00		
Mix	3:00		
Wait	2:00	FCCP	3
Measure	3:00		
Mix	3:00		
Wait	2:00	Antimycin A/Rotenone	3
Measure	3:00		

Supplemental Table 1: Seahorse Assay Protocol

## **Supplemental Figure Legends:**

Supplemental Figure 1: The effect of various DFO doses on *Tfr1* and *Slc11a2* gene expression at 18DIV. Hippocampal neurons cultured from E16 mice were treated with various DFO doses (i.e., 0, 1, 5, 8, or 10  $\mu$ M) and 5-FU beginning at 3DIV. At 18DIV, cells were collected, total RNA was extracted, and cDNA was synthesized. Quantitative real-time PCR (qPCR) was performed for *Tfr1* and *Slc11a2*, two IRE/IRP-regulated genes involved in neuronal iron uptake that index neuronal iron status. Relative mRNA levels are calculated relative to an internal control cDNA sample and a reference gene (i.e., *Tbp*). The data from 1-3 independent cultures were pooled and are presented as mean ± SEM. Groups not sharing a common letter (a > b > c) are significantly different by one-way ANOVA and Tukey's post-hoc multiple comparison test (p < 0.05). n=4-10.

**Supplemental Figure 2: The effect of DFO treatment on neuronal zinc status.** Hippocampal neurons cultured from E16 mice were treated with DFO and 5-FU beginning at 3DIV. At 11DIV, cells were collected, total RNA was extracted, and cDNA was synthesized. Quantitative real-time PCR (qPCR) was performed for *Znt-1*, a gene coding for a zinc transporter, to index neuronal zinc status. Relative mRNA levels are calculated relative to an internal control cDNA sample and

a reference gene (i.e., *Tbp*). The data are presented as mean  $\pm$  SEM. There was no statistical difference between groups by Student's t-test (p < 0.05). n=5.