A. Experiment 1: Investigating the effects of multiple blast exposures

- Sham:
  - Week 0
  - Collect Tissue
  - Week 16

- sTBI:
  - Week 0
  - 20 PSI
  - Week 16

- hTBI:
  - 1 hr
  - Week 0
  - Collect Tissue
  - Week 16

- wTBI:
  - 20 PSI
  - Week 0
  - Collect Tissue
  - Week 16

B. Experiment 2: Investigating the effects of blast preconditioning

- Sham:
  - Week 0
  - Collect Tissue
  - Week 8

- ssTBI:
  - Week 0
  - 20 PSI
  - Week 8

- pTBI:
  - 1 week
  - 20 PSI
  - Collect Tissue
  - Week 8

- pcTBI:
  - 5 PSI
  - Week 0
  - Collect Tissue
  - Week 8

C. Experiment 3: Investigating transcriptional changes after blast TBI

- Preconditioned Control:
  - 5 PSI
  - Week 0
  - Collect Tissue
  - Week 5

- Preconditioned:
  - 5 PSI
  - 1 week
  - 5 days
  - Week 0
  - Collect Tissue
  - Week 5

- Blast:
  - Sham
  - Week 0
  - Collect Tissue
  - Week 5

- Blast + R0 61-8048:
  - 20 PSI
  - Week 0
  - Collect Tissue
  - Week 5

D. Experiment 4: Investigating KMO inhibition

- Preconditioned Control:
  - Week 0
  - Collect Tissue
  - Week 5

- Blast:
  - 20 PSI
  - Week 0
  - Collect Tissue
  - Week 5
**Supplemental Figure 1.** Experimental groups, blast intensities and inter-blast intervals used in these studies to: investigate the effects of multiple blast exposures (A), to investigate the effect of blast preconditioning (B), to investigate transcriptional changes following blast-mediated TBI using RNAseq (C), and to investigate the protective effect of KMO inhibition using Ro-61-8048 (D).