Supplemental Figure S1.  Rice seedlings at 72h after As addition. A) Control plants (0 As(III) added), and  B) 100 µM As(III) treated plants, where leaf curling and/or desiccation of leaves was observed on all grain-accumulator cultivars.
Supplemental Figure S2. Concentrations of total phytochelatin (sum of PC1, PC2, PC3 and PC5) and individual PC forms observed in flash-frozen roots of As grain-accumulators (A) and As grain-excluders (B) in treated and control tissues at each time point.
**Supplemental Figure S3.** Concentrations of total phytochelatin (sum of PC1, PC2, PC3 and PC5) in flash-frozen root (A&B) and leaf (C&D) tissues, per group (A & C) and per cultivar (B&D). Small case letters specify significance between data at the $\alpha = 0.05$ level.
Supplemental Figure S4. Concentrations of cysteine in flash-frozen root (A & B) and leaf (C & D) tissues, per group (A & C) and per cultivar (B & D). Small case letters specify significance between data at the $\alpha = 0.05$ level.