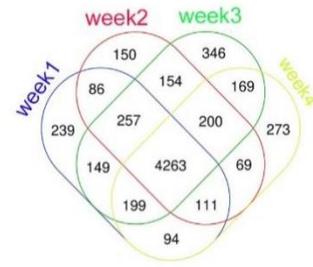


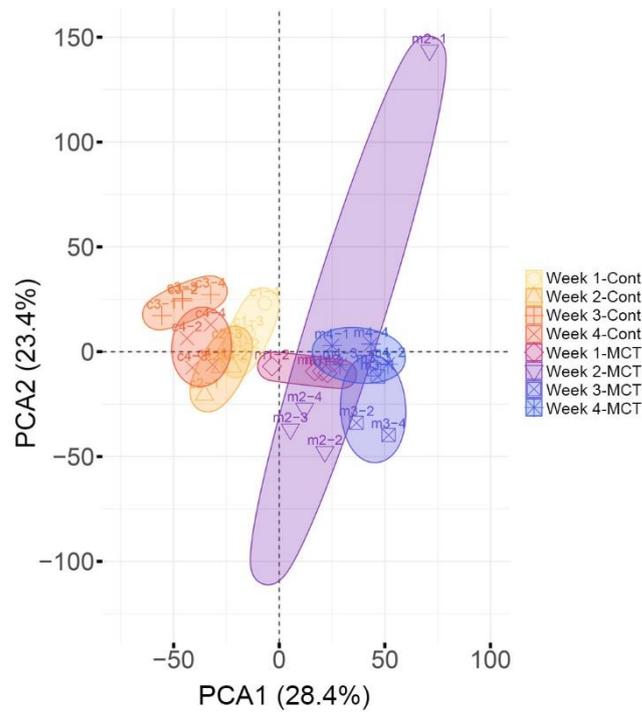
a

	Week 1	Week 2	Week 3	Week 4	Total
Proteins identified	5560	5496	5907	5547	6901
Proteins quantified	5398	5290	5737	5378	6759

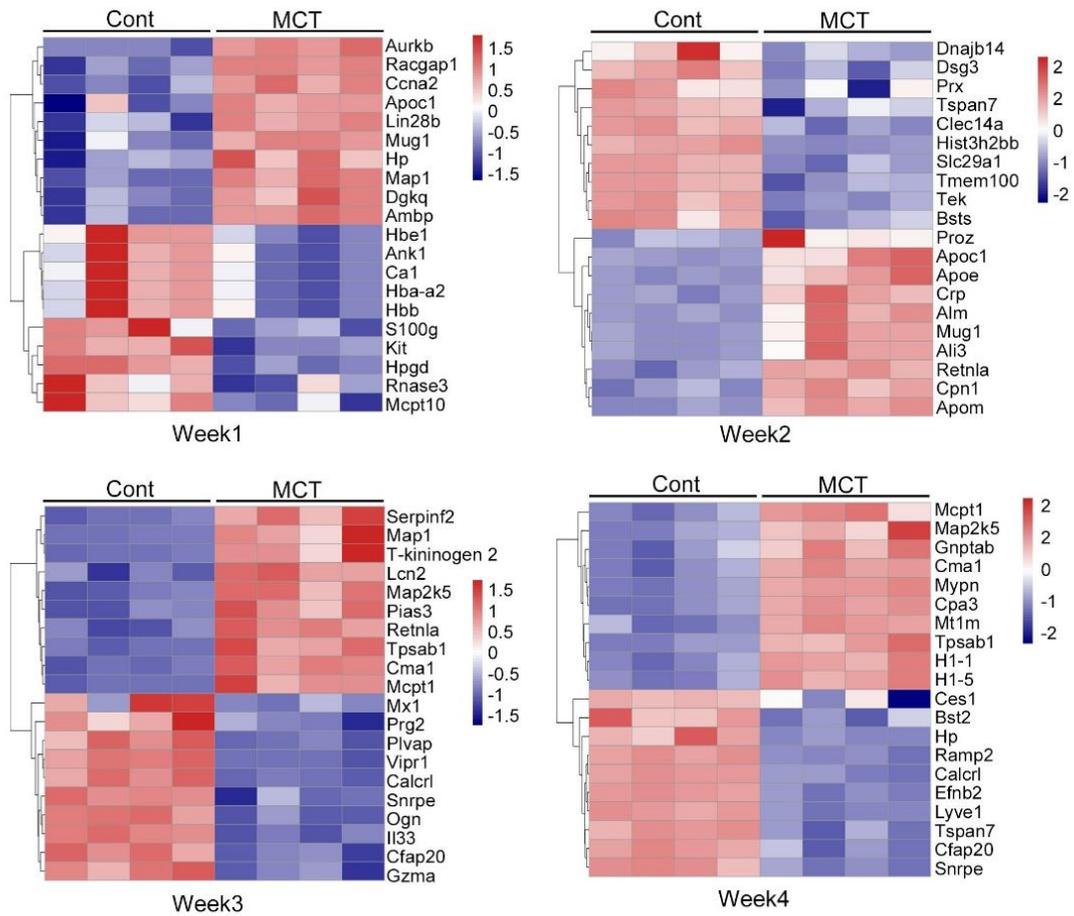
b



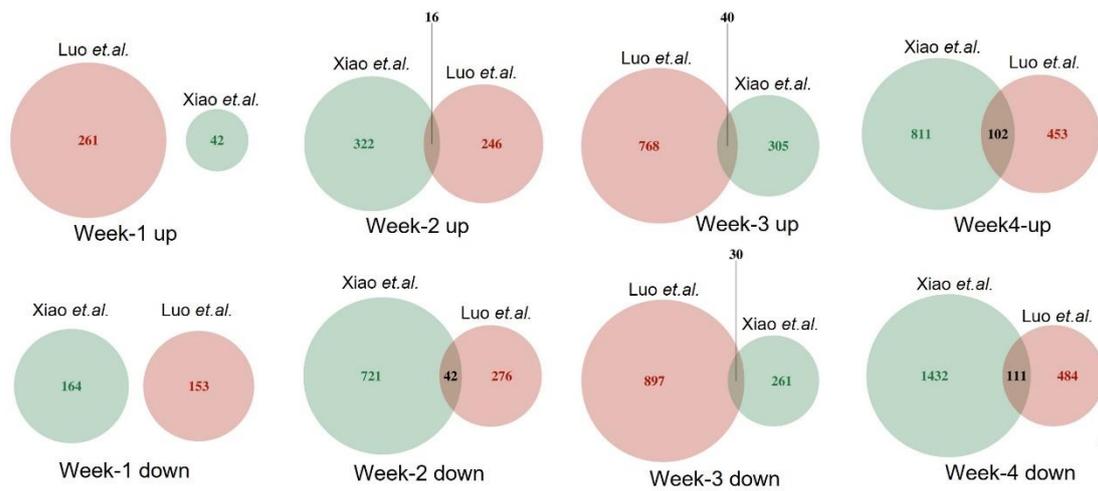
Supplementary Figure S1. Summary of protein numbers in proteomic profiling of lung tissues of MCT-treated rats and the control rats. a Table summarizing the numbers of proteins identified and quantified. **b** Venn diagram showing the protein numbers across four groups.



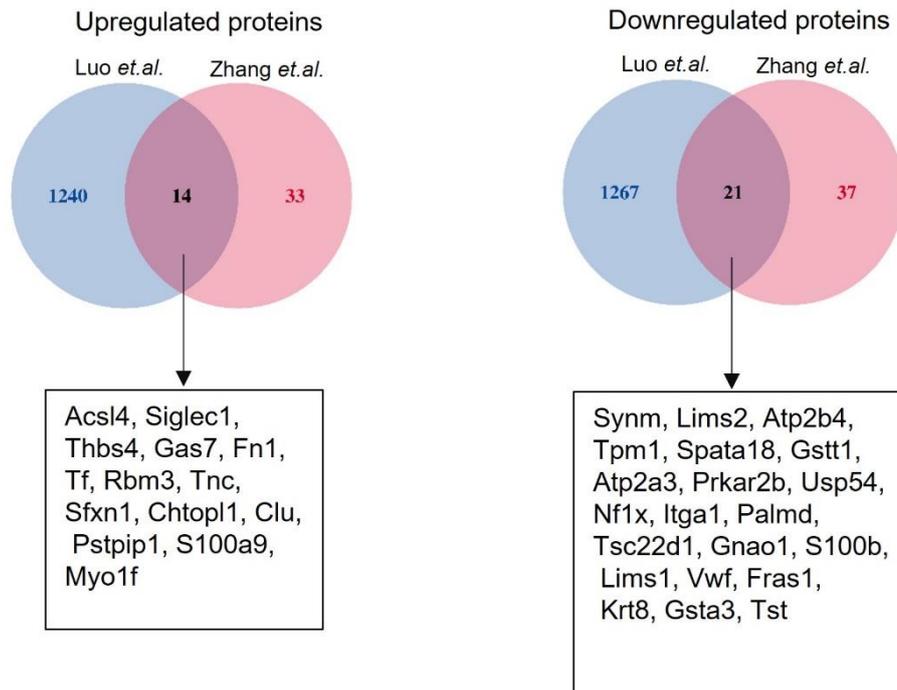
Supplementary Figure S2. Principal component analysis (PCA) of protein abundances for all biological replicates of control (Cont) and MCT treated samples



Supplementary Figure S3. Heatmaps showing the top-10 changed proteins in each group. Uncharacterized proteins were removed.



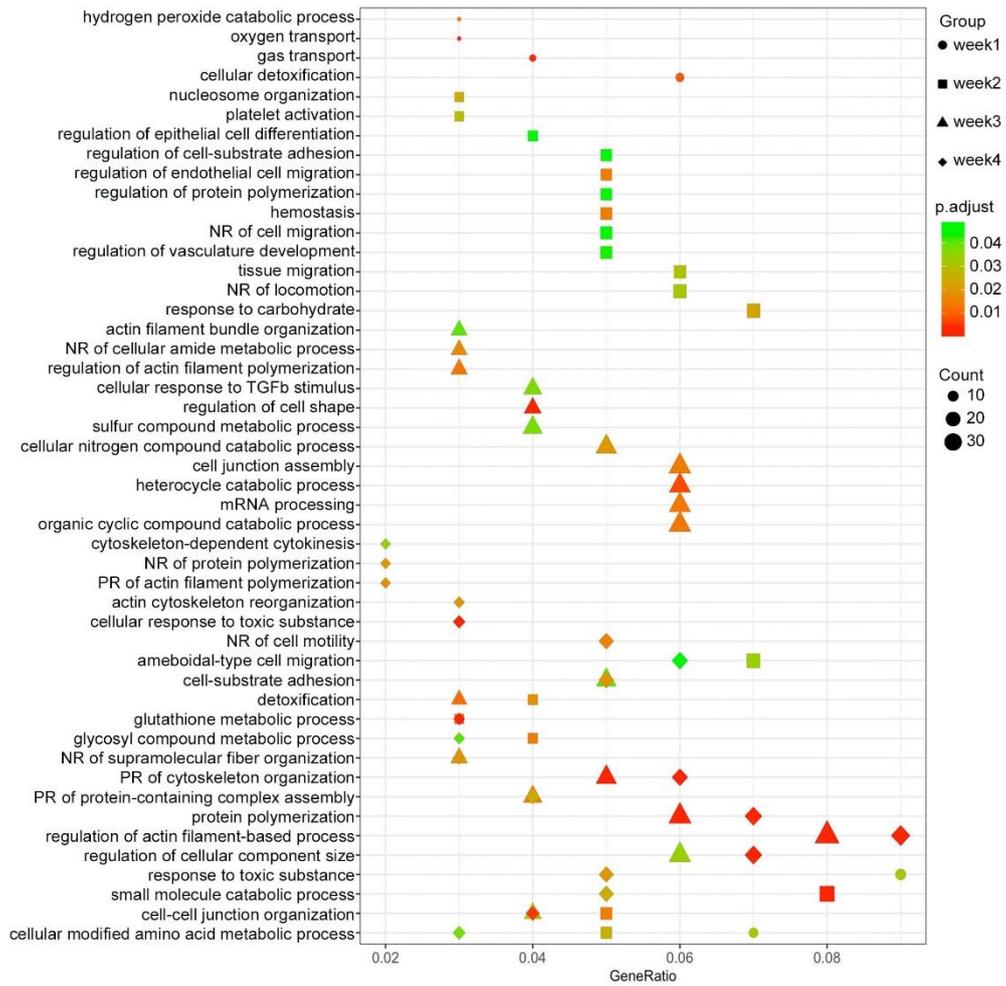
Supplementary Figure S4. Comparison of significantly changed genes or proteins identified by this study (*Luo et al.*) and *Xiao et al.*



Supplementary Figure S5. Comparison of significantly changed proteins identified by this study (*Luo et al.*) and *Zhang et al.* All the significantly upregulated proteins or downregulated proteins identified in week 1,2,3 and 4 were pooled and compared with the data of *Zhang et al.*

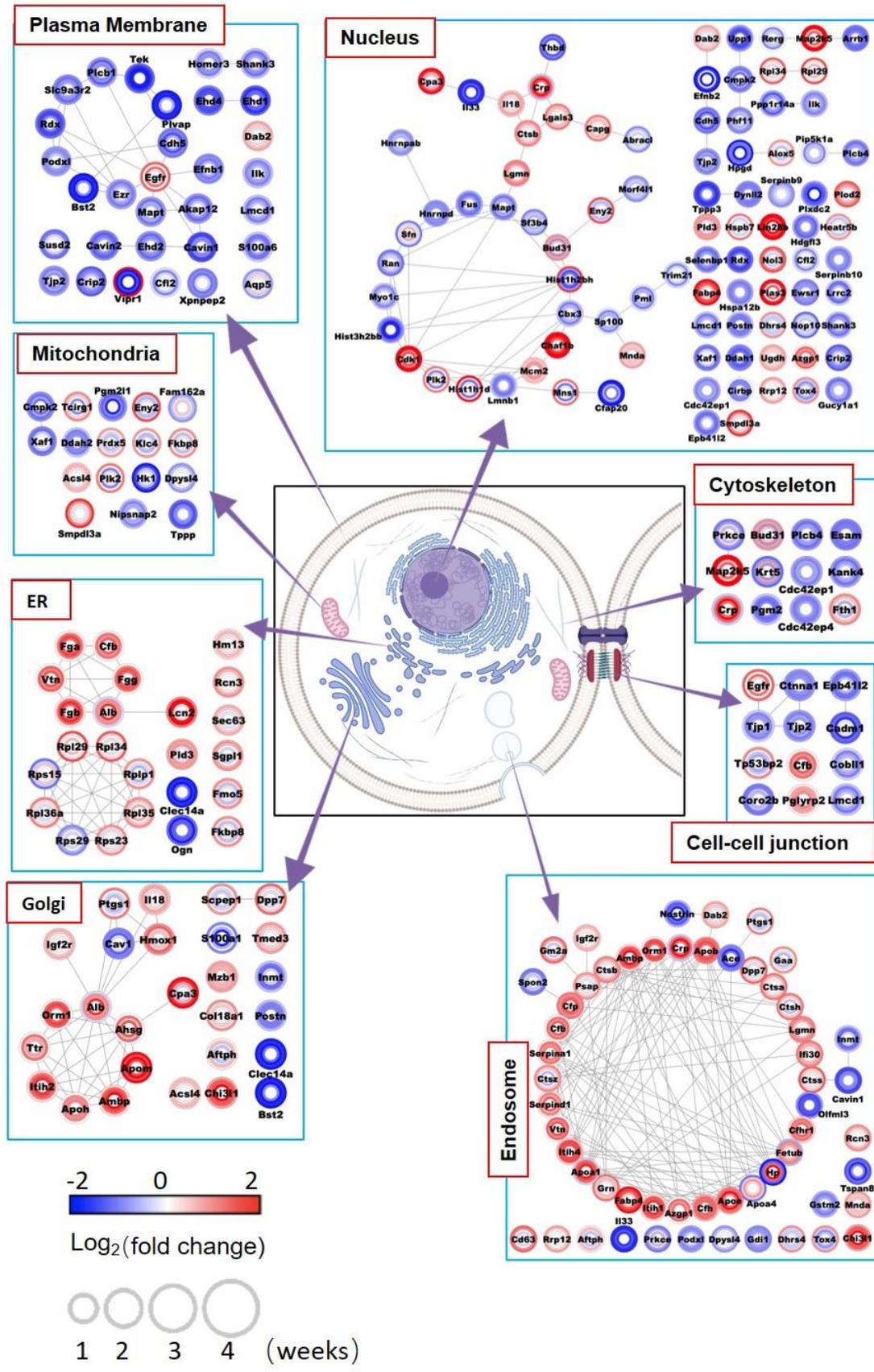


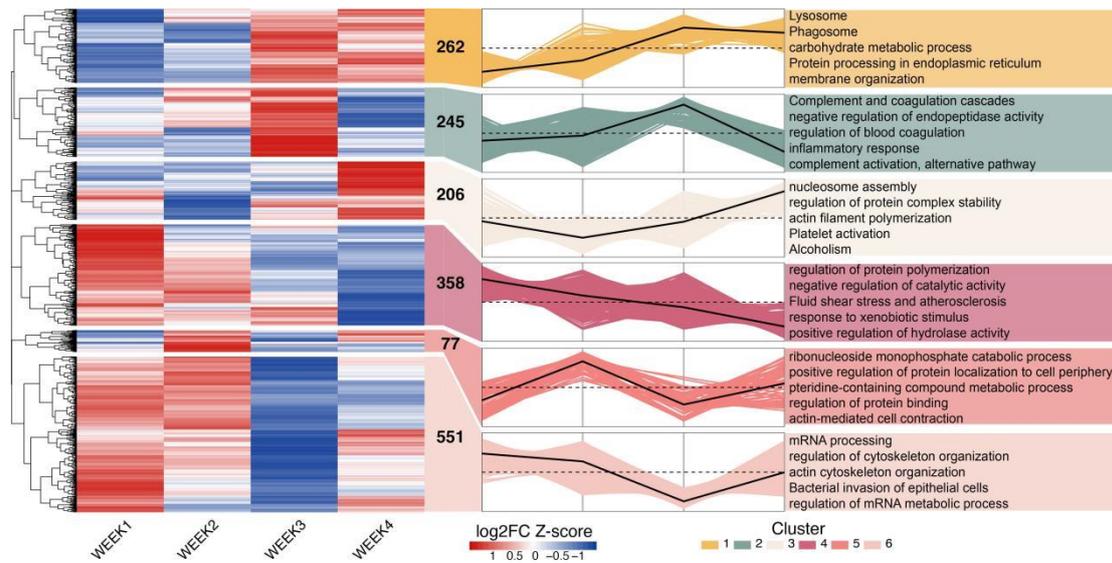
Supplementary Figure S6. GO (biological process) analysis of the proteins significantly upregulated in MCT samples comparing to control samples. For each group of data, top-20 terms were shown based on gene count. PR is short for positive regulation, and NR is short for negative regulation.



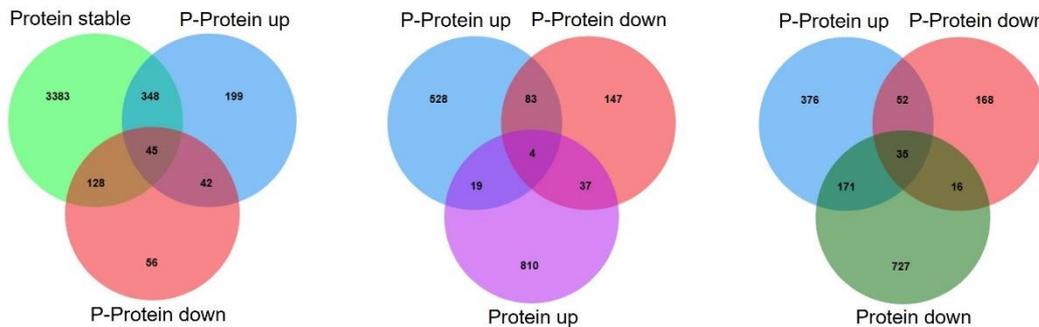
Supplementary Figure S7. GO (biological process) analysis of the proteins significantly downregulated in MCT samples comparing to control samples. For each group of data, top-15 terms were shown based on gene count. PR is short for positive regulation, and NR is short for negative regulation.

a





Supplementary Figure S9. Hierarchical clustering of fold changes and pathway analysis of significantly changed proteins in proteomic profiling of lung tissues from MCT model rats. Proteins significantly changed ($\text{abs}(\log_2(\text{fold change})) > \log_2(1.2)$, $P < 0.05$) in at least one group are included. Number of proteins within each cluster, fold change profiles and selected pathways are shown.



Supplementary Figure S10. Venn diagrams showing the associations between significantly changed phosphoproteins (P-Protein) and proteins quantified in lung tissue from rats treated with MCT for 3 weeks.