

Supplementary file 1 for Proteomic and phosphoproteomic analysis of renal cortex in a salt-load rat model of advanced kidney damage

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This file includes:

Figures S1-S4; Table S1

Other Supporting information for this manuscript (not in this file) includes:

Supplementary Datasets 1-6

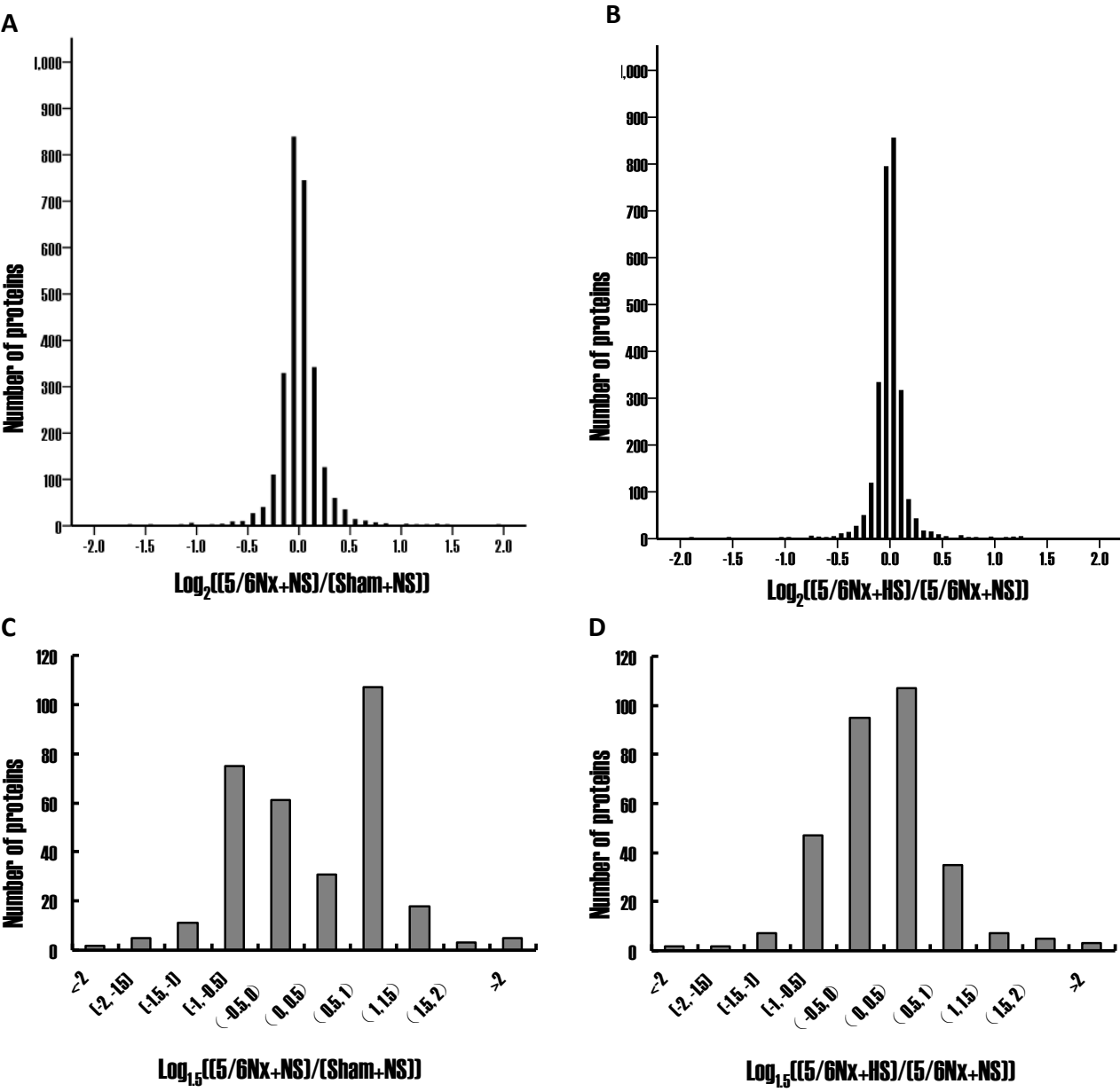


Figure S1. Quantification of identified renal proteins before phosphopeptide enrichment in sham or 5/6Nx rats. (A & B) The distribution of the $\log_2$ (5/6Nx+NS)/(Sham+NS) (A) or (5/6Nx+HS)/(5/6Nx+NS) (B) ratio for abundance of all identified proteins. (C & D) Frequency distribution of Relative quantification of significantly altered proteins expressed as a $\log_{1.5}$ (5/6Nx+NS)/(Sham+NS) (C) or (5/6Nx+HS)/(5/6Nx+NS) (D) ratio. Sham operation+normal salt; 5/6Nx+NS, 5/6Nx+normal salt; Sham+NS, 5/6Nx+HS, 5/6Nx+high salt.

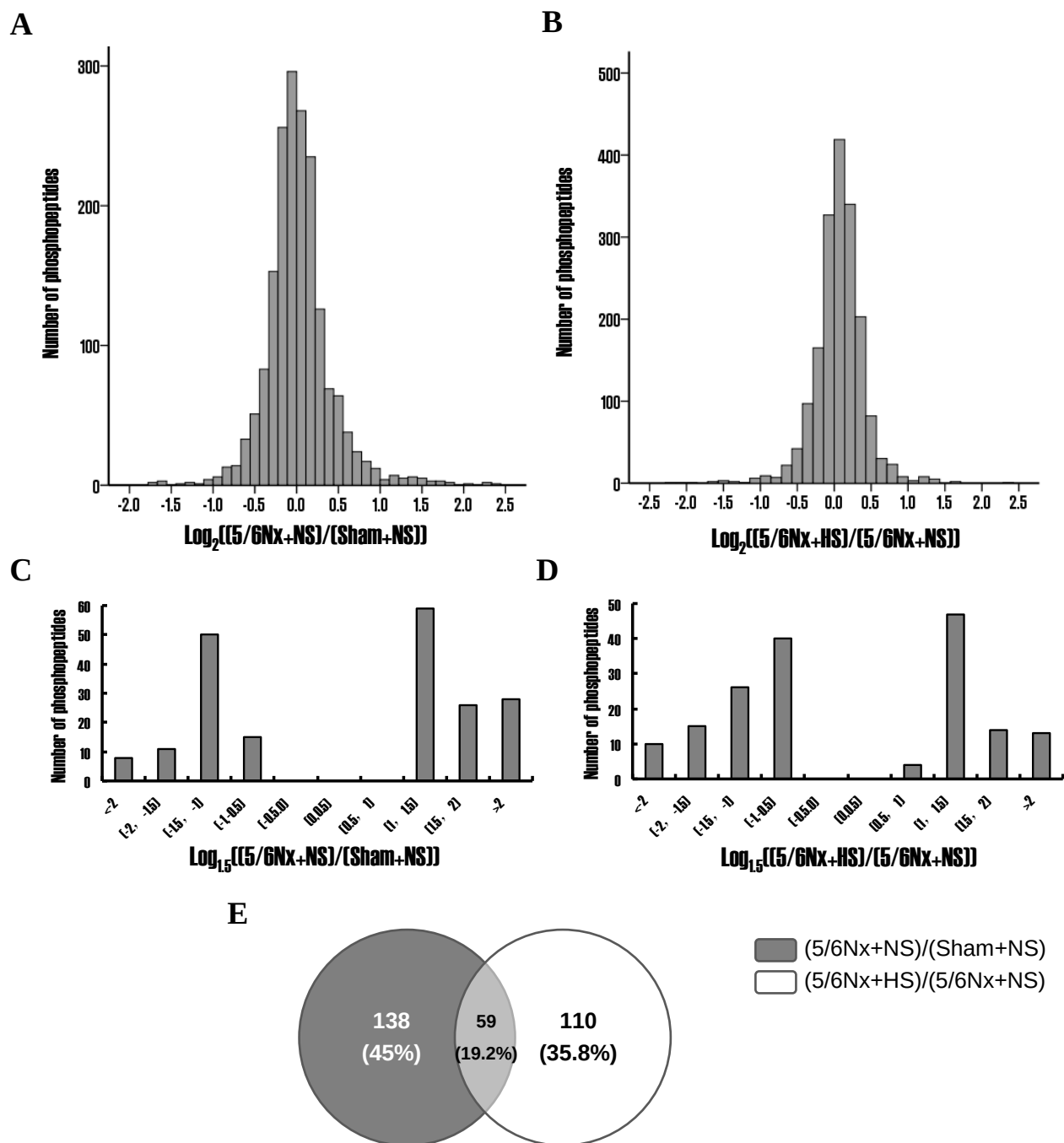
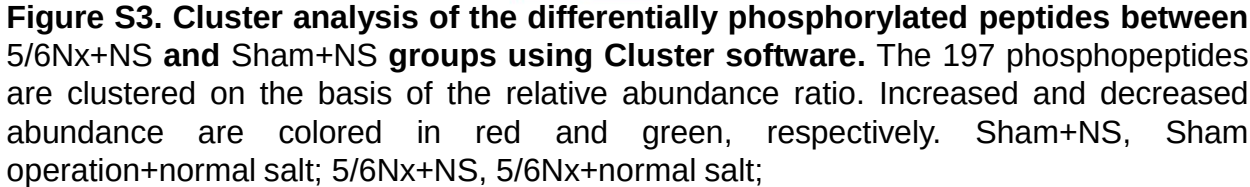


Figure S2 Characterization of differentially phosphorylated peptides and proteins. (A, B) Frequency distribution of relative abundance of identified phosphopeptide at the $\text{Log}_2 (5/6\text{Nx}+\text{NS})/(\text{Sham}+\text{NS})$ or $\text{Log}_2 (5/6\text{Nx}+\text{HS})/(5/6\text{Nx}+\text{NS})$ ratio; (C, D) Frequency distribution of differentially phosphorylated peptides at the $\text{log}_{1.5} (5/6\text{Nx}+\text{NS})/(\text{Sham}+\text{NS})$ or $(5/6\text{Nx}+\text{HS})/(5/6\text{Nx}+\text{NS})$ ratio. (E) Venn diagram analyses of the coordinately regulated phosphopeptides by chronic kidney disease and high salt. Sham+NS, Sham operation+normal salt; 5/6Nx+NS, 5/6Nx+normal salt; 5/6Nx+HS, 5/6Nx+high salt.



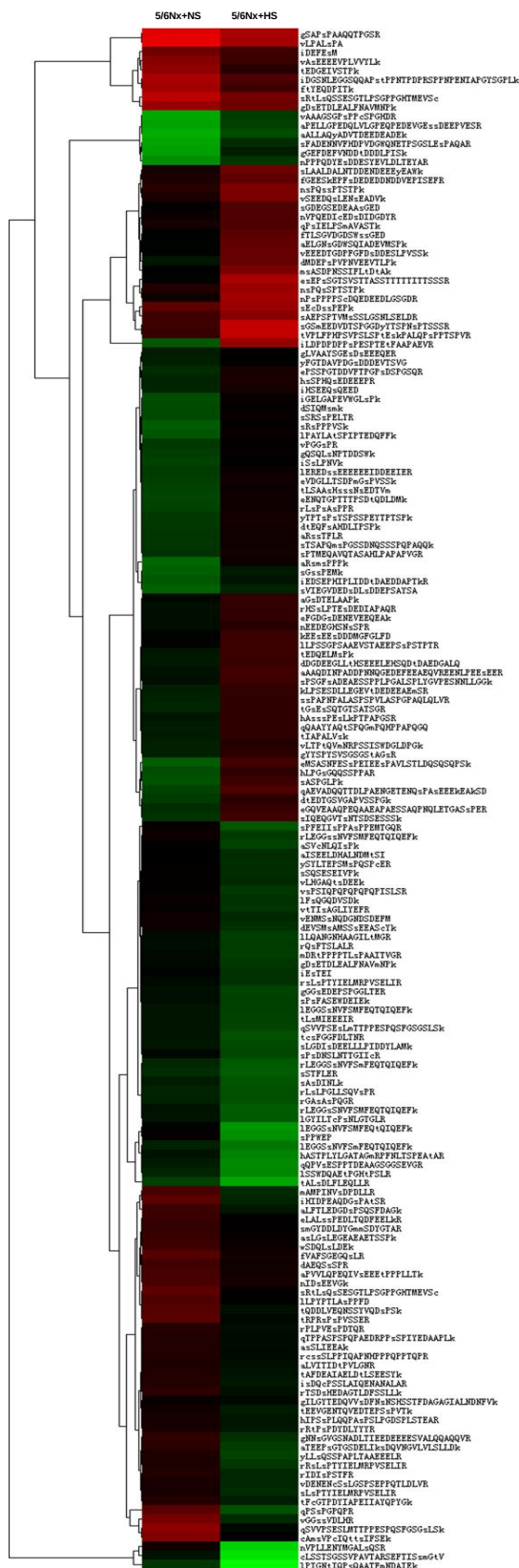


Figure S4 Cluster analysis of the differentially phosphorylated peptides between 5/6Nx+NS and 5/6Nx+HS groups using Cluster software. The 169 phosphopeptides are clustered on the basis of the relative abundance ratio. Increased and decreased abundance are colored in red and green, respectively. 5/6Nx+NS, 5/6Nx+normal salt; 5/6Nx+HS, 5/6Nx+high salt.

Table S1. Physiological and metabolic parameters in rats at week 10 after sham or 5/6 nephrectomy operation^A

	Sham+Normal salt	5/6Nx+ Normal salt	5/6Nx + High salt
Body weight (g)	467.7±3.8	451.0±4.4	456.0±8.0
SBP (mmHg)	124.9±2.6	136.8±3.8 ^B	137.0±3.1 ^B
SCr (μmol/l)	71.7±2.7	107.0±10.5 ^B	110.8±3.0 ^B
BUN (mmol/l)	3.5±0.9	9.3±0.7 ^B	9.1±0.9 ^B
UPE (mg/24h)	12.3±0.8	22.2±1.3 ^B	21.9±1.4 ^B

^AData from 3 independent experiments are expressed as mean ± SD (n = 6 in each group); ^B*p*<0.05 vs. (sham+Normal salt) group; SBP, systolic blood pressure; SCr, serum creatinine; BUN, blood urea nitrogen; UPE, urinary protein excretion.