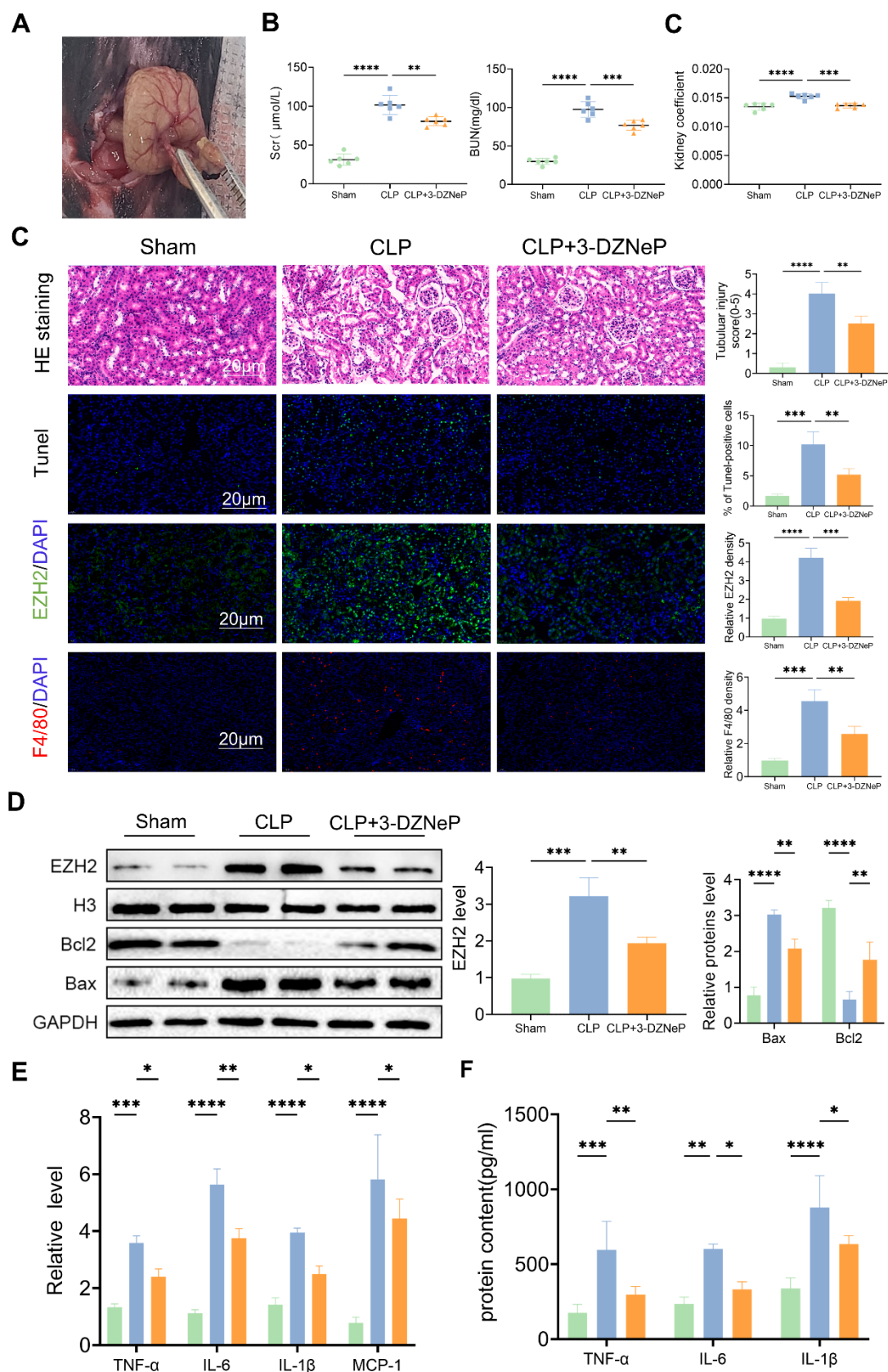


**Figure S1. EZH2 inhibition reduces injury by regulating Sox9/β-catenin in primary murine renal tubular epithelial cells (mRTECs).** (A) Expression of EZH2 in mRTECs with or without 3-DZNeP was detected by IF. (B) Cell activity was determined using a CCK-8 assay under LPS with or without 3-DZNeP. (C) The levels of MCP-1, TNF-α, IL-6, and IL-1β were determined by qPCR. (D) Expression of Sox9 and β-catenin in mRTECs with or without 3-DZNeP was detected by IF. Data represent the means ± SEMs. \*p < 0.05; \*\*p < 0.01; \*\*\*p < 0.001; \*\*\*\*p < 0.0001.



**Figure S2. EZH2 inhibitor 3-DZNeP protects the renal function of AKI in CLP model.** (A) Establishment of cecal ligation and puncture model. (B-C) BUN and SCr levels and kidney coefficient in mice. (D) HE staining, TUNEL staining of the kidneys and EZH2, F4/80 in mouse kidney tissue were

detected by IF. **(E)** Expression of EZH2, Bax, and Bcl2 in kidney tissue lysates from mice. **(F-G)** The levels of TNF- $\alpha$ , IL-6, IL-1 $\beta$  and MCP-1 were determined by qPCR and ELISA. Data represent the means  $\pm$  SEMs. \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$ ; \*\*\*\* $p < 0.0001$ .

**Table S1** List of primers used for qRT-PCR

Target		Sequence 5'→3'
M-IL-1 $\beta$	Forward	GGGCCTCAAAGGAAAGAATCT
	Reverse	GAGGTGCTGATGTACCAGTTGG
M-IL-6	Forward	CTGGGAAATCGTGGAAATGAG
	Reverse	AAGGACTCTGGCTTTGTCTTTCT
M-TNF- $\alpha$	Forward	TCCCCAAAGGGATGAGAAGTT
	Reverse	GAGGAGGTTGACTTTCTCCTGG
M-MCP-1	Forward	TAAAAACCTGGATCGGAACCAAA
	Reverse	GCATTAGCTTCAGATTACGGGT
M-EZH2	Forward	AGCACAAGTCATCCCGTTAAAG
	Reverse	AATTCTGTTGTAAGGGCGACC
M-GAPDH	Forward	TGCTGTCCCTGTATGCCTCTG
	Reverse	TTGATGTCACGCACGATTTC
H-IL-1 $\beta$	Forward	CGATCACTGAAGTGCACGCTC
	Reverse	ACAAAGGACATGGAGAACACCACTT
H-IL-6	Forward	CAATGAGGAGACTTGCCTGGTG
	Reverse	TGGCATTGTGGTTGGGTCA
H-TNF- $\alpha$	Forward	TCTACTCCCAGGTCCTCTTCAAG
	Reverse	GGAAGACCCCTCCCAGATAGA
H-MCP-1	Forward	AGCAGCAAGTGTCCCAAAGA
	Reverse	TTGGGTTTGCTTGTCCAGGT
H-EZH2	Forward	AATCAGAGTACATGCGACTGAGA
	Reverse	GCTGTATCCTTCGCTGTTTCC
H-Sox9	Forward	AGCGAACGCACATCAAGAC
	Reverse	CTGTAGGCGATCTGTTGGGG
H-GAPDH	Forward	GGAAGCTTGTCAATGGAAATC
	Reverse	TGATGACCCTTTTGGCTCCC