

Supplemental Table 1-1 Power analysis of the experiment data

Figure			Number of rats in each panel (n)				Power
			I	II	III	IV	
Fig. 1A Zea-Longa score		MCAO	10	10	10	10	0.999
Fig. 1D TTC staining		MCAO	6	6	6	6	0.969
Fig. 2A Western blot	Fig. 2A GSDMD	MCAO	4	4	4	4	0.940
	Fig. 2A N-terminal GSDMD		3	3	3	3	0.816
Fig. 2B qRT-PCR	Fig. 2B GSDMD mRNA	MCAO	4	4	4	4	0.807
Fig.2C-DImmunofluorescence staining	Fig2D Relative GSDMD positive cells	MCAO	5	5	5	5	0.911
Fig. 4A Western blot	Fig. 4A NLRP3	MCAO	3	3	3	3	0.992
	Fig. 4A Pro-caspase1		4	4	4	4	0.919
	Fig. 4A Cleaved caspase1		4	4	4	4	0.905
	Fig. 4A Mature IL-18		4	4	4	4	0.927
	Fig. 4A Mature IL-1 β		4	4	4	4	0.999
Fig. 4B qRT-PCR	Fig. 4B NLRP3 mRNA	MCAO	4	4	4	4	0.812
Fig.4C-DImmunofluorescence staining	Fig4D Relative NLRP3 positive cells	MCAO	5	5	5	5	0.912
Fig. 6A Western blot	Fig. 6A AGEs	MCAO	3	3	3	3	0.851
	Fig 6A RAGE		4	4	4	4	0.956
Fig. 6B qRT-PCR	Fig6B RAGE mRNA	MCAO	4	4	4	4	0.830
Fig.6DImmunohistochemical staining	Fig. 6C RAGE IOD	MCAO	5	5	5	5	0.909

Note: I . WT Sham, II . WT MCAO, III. *Lepr*^{-/-} Sham, IV. *Lepr*^{-/-} MCAO.

Supplemental Table 1-2 Power analysis of the experiment data

Figure			Number of rats in each panel (n)			Power
			I	II	III	
Fig. 5A Zea-Longa score		MCC950	10	10	10	0.873
Fig. 5C Western blot	Fig. 5C Pro-caspase1	MCC950	4	4	4	0.935
	Fig. 5C Cleaved caspase1		3	3	3	0.934
	Fig. 5C Mature IL-18		4	4	4	0.919
	Fig. 5C Mature IL-1 β		3	3	3	0.972
	Fig. 5CGSDMD		3	3	3	0.863
	Fig. 5C N-terminal GSDMD		3	3	3	0.995

Note: I . *Lepr*^{-/-} MCAO, II . DMSO+ *Lepr*^{-/-} MCAO, III . MCC950+ *Lepr*^{-/-} MCAO.

Supplemental Table 1-3 Power analysis of the experiment data

	Figure		Number of rats in each panel (n)			Power
			I	II	III	
Fig. 7A Zea-Longa score		FPS-ZM1	10	10	10	0.886
Fig. 7C-D Western blot	Fig. 7C NLRP3	FPS-ZM1	4	4	4	0.994
	Fig. 7C Pro-caspase1		4	4	4	0.910
	Fig. 7C Cleaved caspase1		3	3	3	0.963
	Fig. 7C Mature IL-1 β		4	4	4	0.938
	Fig. 7D GSDMD		4	4	4	0.972
	Fig. 7D N-terminal GSDMD		3	3	3	0.971
	Fig. 7D Mature IL-18		3	3	3	0.931
Fig.8B-D Immunofluorescence staining	Fig8B Relative NLRP3 positive cells	FPS-ZM1	5	5	5	0.814
	Fig8D Relative GSDMD positive cells		5	5	5	0.836

Note: I. *Lepr*^{-/-} MCAO, II. *Lepr*^{-/-} MCAO+DMSO, III. *Lepr*^{-/-} MCAO+FPS-ZM1.