

SUPPLEMENTARY TABLE

Supplementary Table S1: Cell lines and medium in the microfluidic chips

Experiment	Group	Chamber 1		Chamber 3		Chamber 2 and 4	
		Cell	Medium	Cell	Medium	Cell	Medium
1	control	RAW264.7	complete medium ^a	RAW264.7	complete medium	No cell	complete medium
	lactate	RAW264.7	complete medium ^a	RAW264.7	complete medium	No cell	complete medium containing 13 mM lactate
	coculture	RAW264.7	complete medium ^a	RAW264.7	complete medium	T24	complete medium
	quercetin	RAW264.7	complete medium ^a	RAW264.7	complete medium	T24	complete medium containing 10 μ M quercetin
2	control	RAW264.7	complete medium	RAW264.7	complete medium	T24	complete medium
	quercetin	RAW264.7	complete medium	RAW264.7	complete medium	T24	complete medium containing 10 μ M quercetin
	lactate	RAW264.7	complete medium containing 13 mM lactate	RAW264.7	complete medium containing 13 mM lactate	T24	complete medium containing 10 μ M quercetin
3	M1 control	No cell	complete medium	No cell	complete medium	M1 macrophage ^b	complete medium
	M1 coculture	T24	complete medium	T24	complete medium	M1 macrophage ^b	complete medium
	M2 control	No cell	complete medium	No cell	complete medium	M2 macrophage ^b	complete medium
	M2 coculture	T24	complete medium	T24	complete medium	M2 macrophage ^b	complete medium
4	control	No cell	RPMI1640 supplemented with 15% FBS	T24	RPMI1640 supplemented with 1% FBS	RAW264.7	RPMI1640 supplemented with 1% FBS
	M1 coculture	No cell	RPMI1640 supplemented with 15% FBS	T24	RPMI1640 supplemented with 1% FBS	M1 macrophage ^b	RPMI1640 supplemented with 1% FBS
	M2 coculture	No cell	RPMI1640 supplemented with 15% FBS	T24	RPMI1640 supplemented with 1% FBS	M2 macrophage ^b	RPMI1640 supplemented with 1% FBS

^aWhen the expression of iNOS and p-NF κ B-p65 was tested, RAW264.7 cells were perfused with complete medium with 100 ng/mL LPS and 100 U/mL IFN- γ in the first 6 hour, and then perfused with complete medium from 6 to 48 h.

^bRAW 264.7 cells were pretreated with 100 ng/mL lipopolysaccharide and 100 U/mL interferon- γ for 24 h to obtain M1 cells, as well as pretreated with 10 ng/ml IL-4 to obtain M2 cells.