

Renin–angiotensin system impairs macrophage lipid metabolism to promote age-related macular degeneration in mouse models

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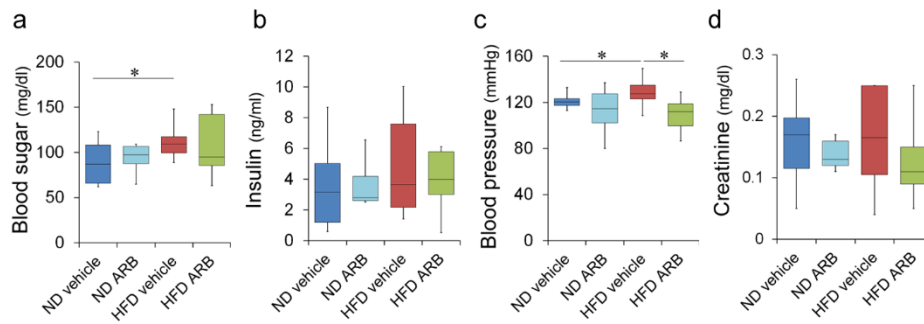
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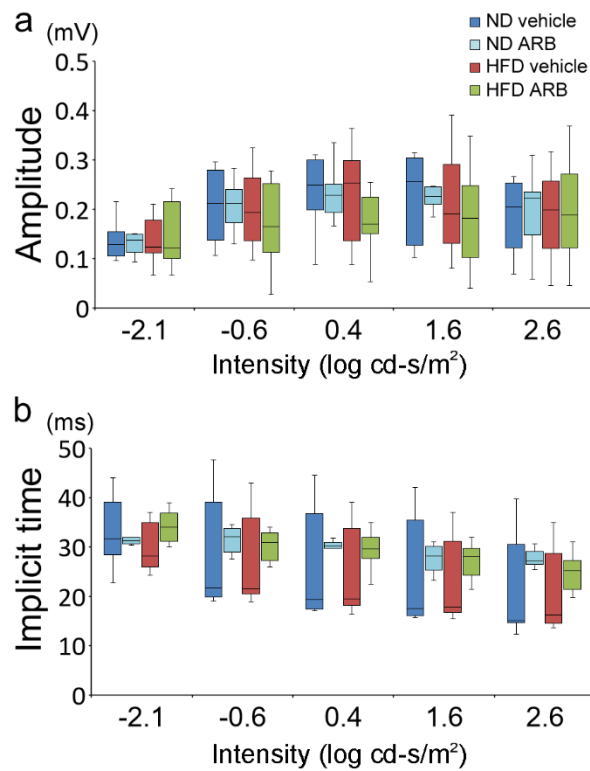
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Supplementary Figure 1. Systemic data of HFD and ND mice with or without ARB.

(a) Blood sugar, (b) insulin, (c) blood pressure, and (d) creatinine levels. HFD, high fat diet; ND, normal diet; ARB, angiotensin II type 1 receptor blocker. Respective numbers for ND mice treated with control, ND mice treated with ARB, HFD mice treated with control, and HFD mice treated with ARB were (a) 17, 10, 20, 15; (b) 10, 8, 10, 10; (c) 12, 8, 9, 8; (d) $n = 8$ for all. The samples were all biologically independent.



Supplementary Figure 2. Oscillatory potentials in ERG after 1 month of HFD feeding.

There were no differences between groups. ND, normal diet; HFD, high-fat diet; AT1R, angiotensin II type 1 receptor; ARB, AT1R blocker. Respective numbers for ND mice treated with control, ND mice treated with ARB, HFD mice treated with control, and HFD mice treated with ARB were 12, 8, 12, 12. The samples were all biologically independent. Data are expressed as means $\pm$ standard deviation.

Supplementary Table 1. Primers for real time RT-PCR

Genes	Forward	Reverse
ABCA1	AACAGTTTGTGGCCCTTTTG	CACAATCAGGCTGAAGACCA
Angiotensinogen	GCGGAGGCAAATCTGAACAAC A	GAAAGTGCAGCGTGCCTGAG TC
AT1R	CTGCGTCTTGTTCTGAGGTG	ACTGGTCCTTTGGTCGTGAG
Atp6v1b2	AGCCTCGTCTCACCTACAAGA	TCTCAGCGTATCTGGGAAACT T
F4/80	CTGTAACCGGATGGCAAAC	ATGGCCAAGGCAAGACATAC
ELAVL1	ACTGAACGGCTTGAGACTCC	TTCTGTGTCATGGTCCTTGG
IL-1 β	AGCTCTCCACCTCAATGGAC	AGGCCACAGGTATTTTGTCTG
IL-17	CAGCAGCGATCATCCCTCAAA G	CAGGACCAGGATCTCTTGCT G
IL-33	ACTGAACGGCTTGAGACTCC	TTGTGAAGGACGAAGAAGGC
Lamp2	ATGTGCCTCTCTCCGGTTAAA	GCAAGTACCCTTTGAATCTGT CA
Lipa	GGAAACAGCAGAGGAAACACC T	CACGGGAGCCAAGACTAAAA C
MCP-1	GCCTGCTGTTACAGTTGC	TCATTGGGATCATCTTGCTG
PPAR γ	AGGCCGAGAAGGAGAAGCTGT TG	TGGCCACCTCTTTGCTCTGCT G
TNF- α	GCCACCACGCTCTTCTGTCTA	GATGAGAGGGAGGCCATTTG
GAPDH	AGGAGCGAGACCCCACTAAC	GATGACCCTTTTGGCTCCAC
Nlrp3	TaqMan Gene Expression Assays, Mm00840904m1	
VEGF	TaqMan Gene Expression Assays, Mm01281449m1	