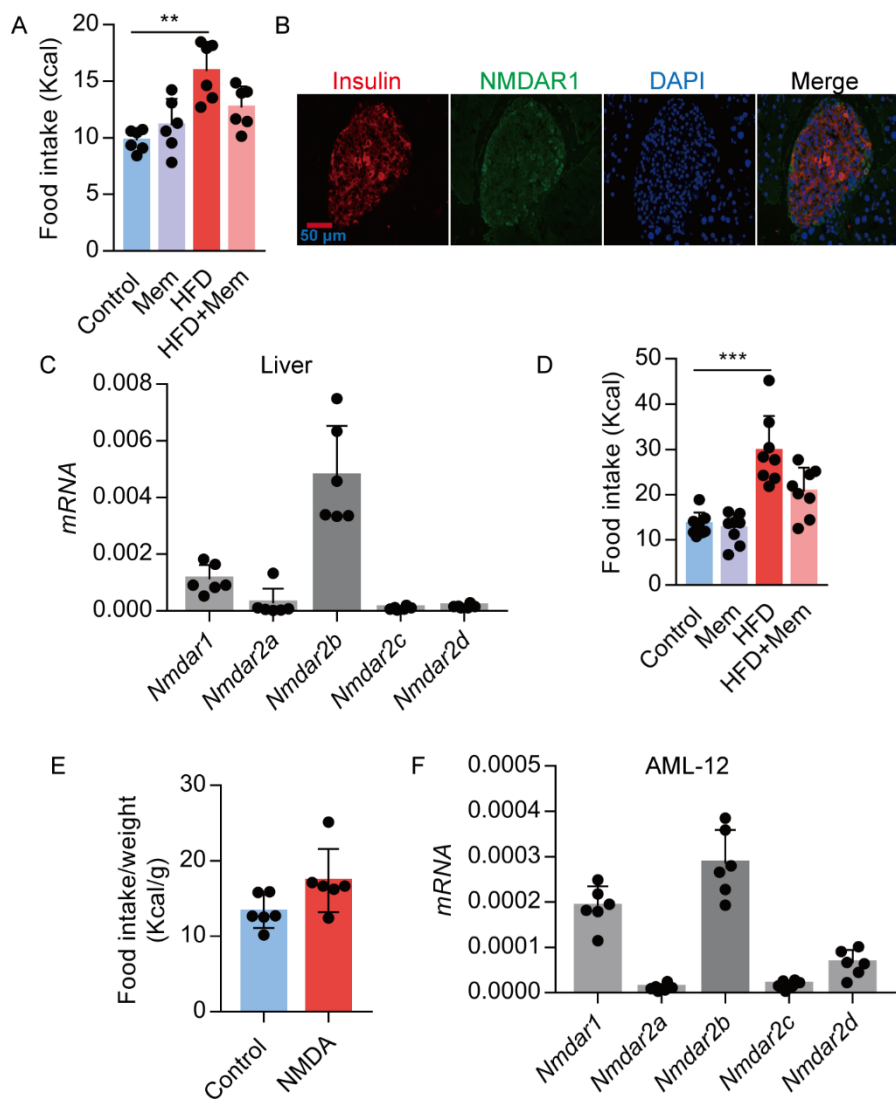


Supplementary Figure



Sup Figure 1. (A) Determination of food intake of mice fed with HFD or normal chow diet for 12 weeks ($n = 6$). (B) Representative immunofluorescence staining images of pancreases in control mice (Insulin: red, NMDAR1: Green, DAPI: blue, $n = 4$). (C) RT-PCR analysis of NMDAR genes in liver tissue of mice ($n = 6$). (D) Determination of food intake of mice fed with HFD or normal chow diet for 24 weeks ($n = 8$). (E) Determination of food intake of mice treated with NMDA for 6 months ($n = 6$). (F) RT-PCR analysis of NMDAR genes in AML-12 hepatocytes ($n = 6$). ** $P < 0.01$, *** $P < 0.001$. All data are presented as the mean \pm SEM.

Supplementary Table

Gene	Species	Forward primer (5'–3')	Reverse primer (5'–3')	Table
<i>Acox1</i>	mouse	CCTGATTCAGCAAGGTAGGG	TCGCAGACCCTGAAGAAATC	e 1.
<i>Cpt1a</i>	mouse	AGTGGCCTCACAGACTCCAG	GCCCATGTTGTACAGCTTCC	Seq
<i>Hmgcs2</i>	mouse	ATACCACCAACGCCTGTTATG	CAATGTCACCACAGACCACCA	uenc
<i>Cyp4a10</i>	mouse	AAGGGTCAAACACCTCTGGA	GATGGACGCTCTTTACCCAA	es of
<i>Pparγ</i>	mouse	GCTGTTATGGGTGAAACTCT	TGGCATCTCTGTGTCAACCA	spec
<i>Cox7a1</i>	mouse	GTCTCCCAGGCTCTGGTCCG	CTGTACAGGACGTTGTCCATTC	ific
<i>Pgclα</i>	mouse	TCCTCCTCATAAAGCCAACC	GCCTTGGGTACCAGAACACT	prim
<i>Mcad</i>	mouse	CCAGAGAGGAGATTATCCCCG	TACACCCATACGCCAACTCTT	ers
<i>Srebplc</i>	mouse	GTTACTCGAGCCTGCCTTCAGG	CAAGCTTTGGACCTGGGTGTG	used
<i>Accl</i>	mouse	GGACAGACTGATCGCAGAGAA AG	TGGAGAGCCCCACACACA	in this
<i>Fas</i>	mouse	GCTGCGGAAACTTCAGGAAAT	AGAGACGTGTCACTCCTGGAC TT	stud y
<i>Lcad</i>	mouse	GCATCAACATCGCAGAGAAA	TCGCAATATAGGGCATGACA	
<i>Etfdh</i>	mouse	GTCTTGATCCAGCTGCCTTC	ACCTGGAAGAATTGGCACAG	

<i>Chrebp</i>	mouse	CCTCACTTCACTGTGCCTCA	ACAGGGGTTGTTGTCTCTGG
<i>Mcp-1</i>	mouse	GTCCCTGTCATGCTTCTGG	GCGTAACTGCATCTGGCT
<i>Il-6</i>	mouse	CTGGGGATGTCTGTAGCTCA	CTGTGAAGTCTCCTCTCCGG
<i>Tnf-α</i>	mouse	AGCCCCAGTCTGTATCCTT	CTCCCTTTGCAGAACTCAGG
<i>β-actin</i>	mouse	TTCCAGCCTTCCTTCTTG	GGAGCCAGAGCAGTAATC
<i>Nmdar1</i>	mouse	ACTCCCAACGACCACTTCAC	GTAGACGCGCATCATCTCAA
<i>Nmdar2a</i>	mouse	AGACCTTAGCAGGCCCTCTC	CTCTTGCTGTCCTCCAGACC
<i>Nmdar2b</i>	mouse	CCGCAGCACTATTGAGAACA	ATCCATGTGTAGCCGTAGCC
<i>Nmdar2c</i>	mouse	ATCGGGGTCAACAATACCAA	CACAGCAGAACCTCCACTGA
<i>Nmdar2d</i>	mouse	TAGTGTCAGTGCGCAGATCC	TCCTGGCAGAAGAAGTGGTT
<i>Lcad</i>	human	AAGCGAAACGTTTGGACTCC	CCCACATGTATCCCCAACCT
<i>Etfdh</i>	human	GCTCTTGGTCTTGTGGTTGG	AGCCACCTTCATTGAGAGCT
<i>Acox1</i>	human	GGGACCCATAAGCCTTTGCC	CTTGTTACTACGCGGTTTCACG
<i>Cpt1a</i>	human	ATCAATCGGACTCTGGAAACGG	ATCTTGGTGGCACGACTCATCT
<i>Hmgcs2</i>	human	TCTGTCCCCTTGCAATTCCA	TAGAACAGGGAAGTGGGCTG
<i>Cox7a1</i>	human	GTACCGAGTGACAATGACGC	GGCCAGCGTTTATTGACACT
<i>Pgc1α</i>	human	CACCAGCCAACACTCAGCTAA G	AGGGTCATCGTTTGTGGTCAG
<i>Mead</i>	human	TGTGGAAGCAGATACCCCAG	ACCAGCTCCGTCACCAATTA
<i>Gapdh</i>	human	CCAAGGAGTAAGACCCCTGG	AGGGGAGATTCAAGTGTGGTG
