

SUPPLEMENTARY MATERIAL

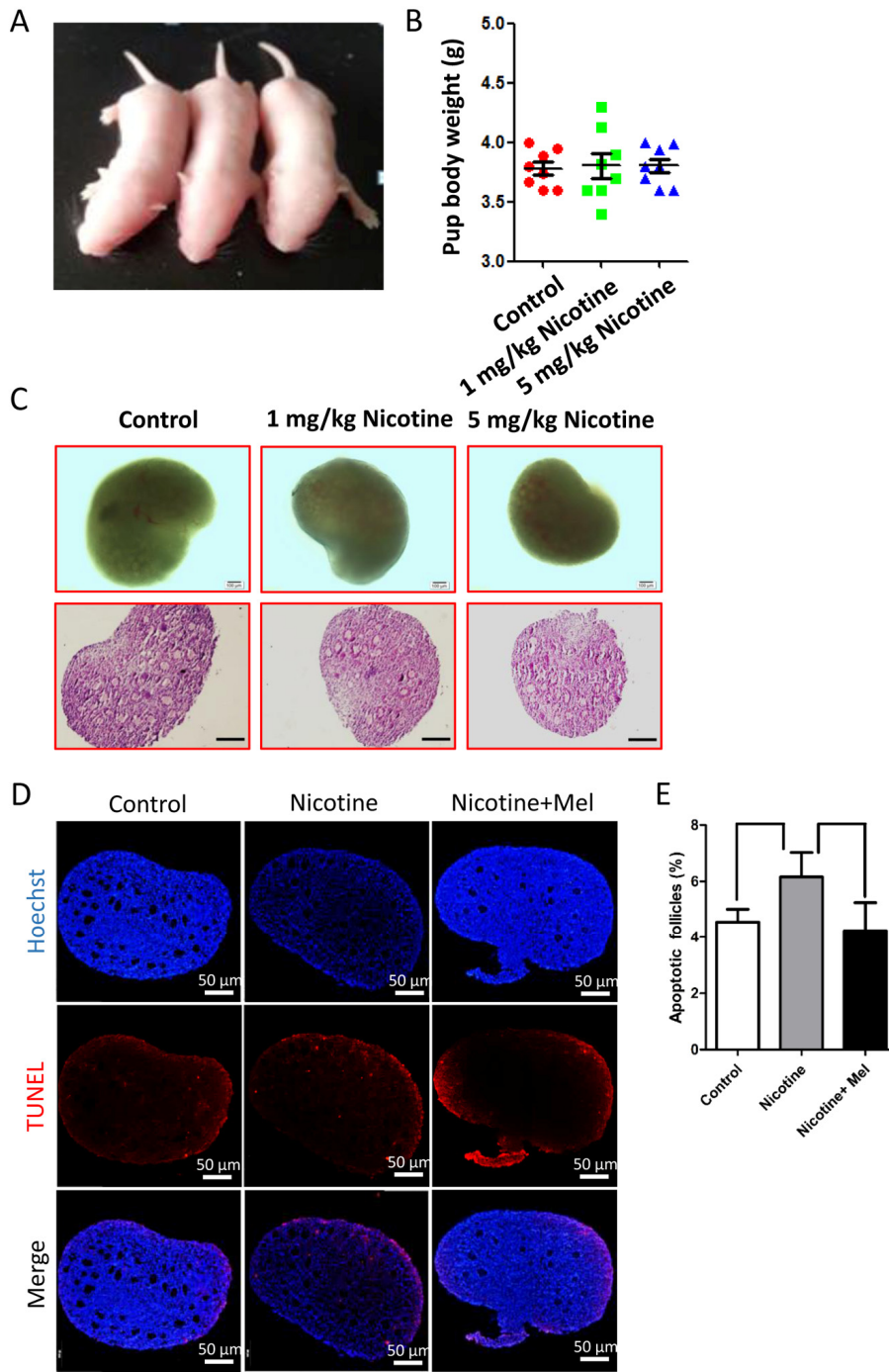


Figure S1. Nicotine-exposed pups compared with normal littermate after deal with 5 days. (A) Photograph of nicotine-exposed pups compared with normal littermate. (B) Body weight of nicotine-exposed and control pups. (C) Gross morphologies and representative H&E histological sections of the ovaries dissected from 4 dpp pups of the nicotine-exposed groups. (D) TUNEL histochemistry (red) in representative tissue sections of ovaries from normal, intraperitoneally injected 1 mg /kg nicotine and intraperitoneally injected 1 mg /kg nicotine plus 1µM melatonin pups. (E) The percentage of follicles with two or more TUNEL-positive cells in intraperitoneally injected 1 mg /kg nicotine and intraperitoneally injected 1 mg /kg nicotine plus 1 µM melatonin pups compared with normal pups. For each group, five ovaries were collected and follicles (n = 900) for statistical results, The results are presented as mean±SD. All the experiments were repeated at least three times. * P < 0.05; ** P < 0.01.

Table S1. Primers used for quantitative RT-PCR.

Genes	Genbanks	Forward primer sequences	Reverse primer sequences	Product Length (bp)
<i>β-actin</i>	NM_007393.5	TCGTGGGCCGCCCTAGGCAC	TGGCCTTAGGGTTCAGGGGGG	243
<i>Figla</i>	NM_012013.1	ACAGAGCAGGAAGCCCAGTA	TGGGTAGCATTTCCCAAGAG	225
<i>Nobox</i>	NM_130869	CTATCCTGACAGTGACAAACGCC	CACCCTCTCAGCACCTCATTAT	251
<i>Lhx8</i>	NC_000069.5	CAGTTCGCTCAGGACAACAA	CCTGCAGTTCTGAAACCACA	105
<i>Sod1</i>	NM_001005735.1	GGGGAAGCATTAAGGACTGA	CCACCGTGTTTTCTGGATAGA	124
<i>Glx2</i>	XM_00652985	ATCGTCGTTTTGGGGGAAGT	GGAACAGTAAGAGCAGGATGTTT	152
<i>Sohlh2</i>	NM_028937.3	TCTCAGCCACATCACAGAGG	GGGGACGCGAGTCTTATACA	199
<i>Gpx1</i>	NM_000581.2	AGTCGGTGTATGCCTTCTCG	AGCTCGTTCATCTGGGTGTAGT	145
<i>α4 nAChR</i>	NM_015730	CTCAGATGTGGTCCTTGTC	GAGTTCAGATGGGATGCG	178
<i>α5 nAChR</i>	NM_176844	CATCGTTTTGTTTGATAATGC	TGCGTCCAAGTGACAGTG	90
<i>α7 nAChR</i>	NM_007390	GGTCATTTGCCCACTCTG	GACAGCCTATCGGGTGAG	130
<i>α9 nAChR</i>	NM_001081104	ACAAGGCCACCAACTCCA	ACCAACCCACTCCTCCTCTT	152
<i>α10nAChR</i>	NM_001081424	TCTGACCTCACAACCCACAA	TCCTGTCTCAGCCTCCATGT	168
<i>β4 nAChR</i>	NM_148944	CTACAGGAAGCATTAGAGG	CAGAATACACACAATCACG	146

Table S2. Antibodies used in this paper.

Antibodies	Vendor	Dilution
BCLIN-1 (WB)	Cell signaling (#3738)	1:1000
LC3B (WB)	Abcam (ab51520)	1:3000
BCL-2 (WB)	Beyotime (ab116)	1:1000
mTOR (WB)	Bioss (bs-1992R)	1:200
AMPKα-1 (WB)	Bioss(bs-1115R)	1:500
MVH (IF/WB)	Abcam(ab13840)	1:100
AKT (WB)	Cell signaling (#2920)	1:1000
NOBOX (IF/WB)	Abcam (ab41521)	1:150/1:1000
LHX8 (WB)	Abcam (ab126981)	1:1000
β-ACTIN (WB)	Abcam (ab3280)	1:1000
MT1	Novusbio(Nbp1-71113)	1:500