

Intestinal Flora Changes Induced by a High-Fat Diet Promote Activation of Primordial Follicles through Macrophage Infiltration and Inflammatory Factor Secretion in Mouse Ovaries

Supplementary Figure and Figure Legend

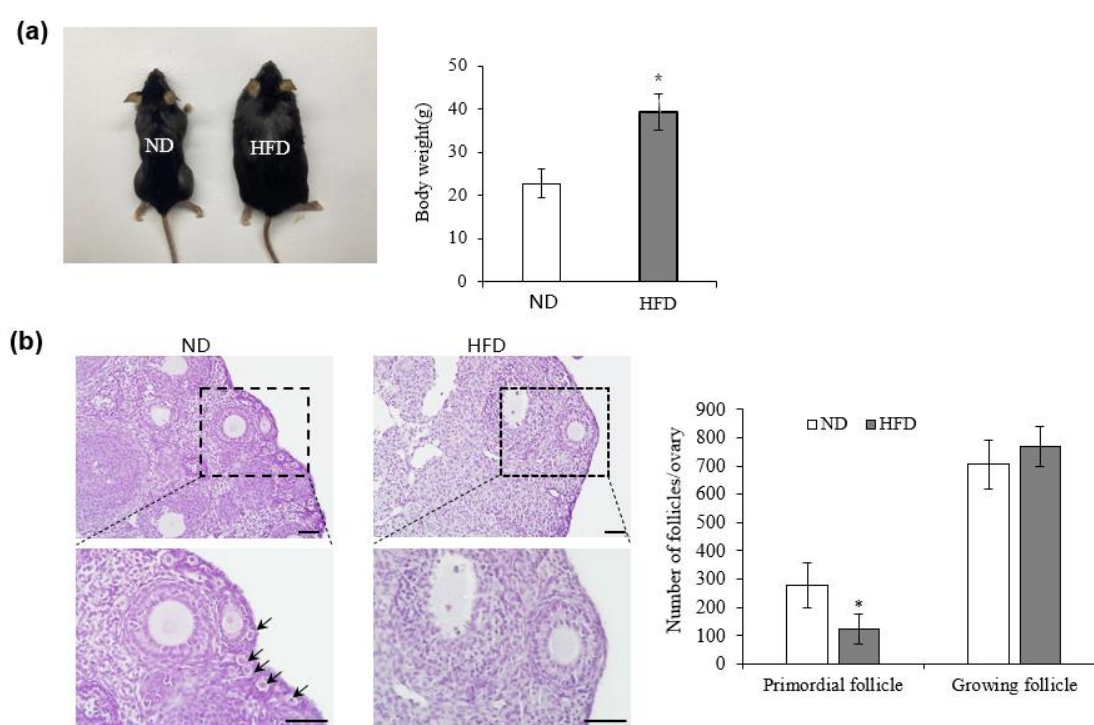


Figure S1. HFD induces the overactivation of primordial follicles in an HFD-induced obesity mouse model. **(a)** Average body weight after 12 weeks of ND ($n = 19$) or HFD diet ($n = 20$). **(b)** Representative H&E staining images and follicle number counts showing that the primordial follicle pool in HFD mice was significantly decreased compared to ND mice. Black arrows represent the primordial follicles. Scale bar = $100\mu\text{m}$. * $P < 0.05$.

Table S1. Primer sets used in this study.

Gene (Mouse)	Primer Sequences (5'–3')
<i>TNFα</i>	F: 5'-CCGATGGGTTGTACCTTGTC
	R: TGGAAGACTCCTCCAGGTA
<i>Il-6</i>	F: 5'-TGCAAGAGACTTCCATCCAG
	R: 5'-TCCACGATTTCAGAGAAC
<i>Il-8</i>	F: 5'-ACTCCAAACCTTTCCACCCC
	R: 5'-TTCTCAGCCCTCTTCAAAAACCTC
<i>Il-1b</i>	F: 5'-GCAACTGTTCTGAACTCAACT
	R: 5'-ATCTTTTGGGGTCCGTCAACT
<i>Il-18</i>	F: 5'-AAGAAAGCCGCCTCAAACCT
	R: 5'-AGTGAAGTCGGCCAAAGTTGT
<i>Il-10</i>	F: 5'-AGGATGCACATCAAAAGGCTT
	R: 5'-GGCCTCGGTTAGGAAGGATAC

<i>Il-12</i>	F: 5'-CAATCACGCTACCTCCTCTTTT
	R: 5'-CAGCAGTGCAGGAATAATGTTTC
<i>Il-4</i>	F: 5'-CCTCACAGCAACGAAGAACA
	R: 5'-TGGACTCATTCATGGTGCAG
<i>Il-33</i>	F: 5'-ACTGCATGAGACTCCGTTCTG
	R: 5'-CCTAGAATCCCGTGGATAGGC
<i>Il-17</i>	F: 5'-GAAGGCAGGAATCACAATC
	R: 5'-GCCTCCCAGATCACAGA
<i>Ary-1</i>	F: 5'-AACACTCCCCTGACAACCAG
	R: 5'-GCAAGCCAATGTACACGATG
<i>Gapdh</i>	F: 5'-AGGTTGTCTCCTGCGACTTCA
	R: 5'-GGGTGGTCCAGGGTTTCTTACT
<i>Il-8</i>	F: 5'-ACTCCAAACCTTTCCACCCC
	R: 5'-TTCTCAGCCCTCTTCAAAAACTTC
<i>Ccr2</i>	F: 5'-TAAAAAACCTGGATCGGAACCAA
	R: 5'-GCATTAGCTTCAGATTTACGGGT
<i>Ccr3</i>	F: 5'-AACTTGCAAAACCTGAGAAGC
	R: 5'-ACCATCATGTTGCCAGGAG
<i>Ccr4</i>	F: 5'-GCCAACAGCCCTGTTTTCTG
	R: 5'-ACACTGGATTTGAGGCTCCG
<i>Ccr5</i>	F: 5'-ACTGCTGCCTAAACCCTGTC
	R: 5'-AGTGGTTCTTCCCTGTTGGC
<i>Ccr6</i>	F: 5'-CCCGTCTCTCAATGAGCACT
	R: 5'-AACACGAGAACCACAGCGAT
<i>Ccr8</i>	F: 5'-ACGTCACGATGACCGACTACT
	R: 5'-CCCAGCACAAACAAGACGC