

Mouse	Diet	CONV-R vs GF	Sex	Area carotid plaque ( $\mu\text{m}^2$ )	% carotid plaque
1	HFD	CONV-R	m	923861.1	86.25
2	HFD	CONV-R	m	545789.3	76.22
3	HFD	CONV-R	m	723086.15	94.33
4	HFD	CONV-R	m	441455	79.72
5	HFD	CONV-R	m	506881.2	65.01
6	HFD	CONV-R	m	47184.4	10.52
7	HFD	CONV-R	m	443334.85	70.37
8	HFD	CONV-R	f	98754.6	34.13
9	HFD	CONV-R	f	567471.1	70.58
10	HFD	CONV-R	f	346924.3	64.62
11	HFD	CONV-R	f	427869.7	74.16
12	HFD	CONV-R	f	-	-
13	HFD	CONV-R	f	223247.75	40.31
14	HFD	CONV-R	f	293033.2	42.43
15	HFD	CONV-R	f	356851.8	51.65
16	HFD	GF	m	-	-
17	HFD	GF	m	60287.2	13.13
18	HFD	GF	m	22826.9	7.3
19	HFD	GF	m	197080.05	38.92
20	HFD	GF	m	182789.4	50.11
21	HFD	GF	f	293556.6	51.97
22	HFD	GF	f	183557.65	52.3
23	HFD	GF	f	170469.45	52.54
24	HFD	GF	f	521304.45	84.5
25	HFD	GF	f	199373.2	52.79
26	HFD	GF	f	177137.4	49.23
27	HFD	GF	f	483968.65	72.44
28	HFD	GF	f	-	-
29	HFD	GF	f	206849.05	37.53
30	HFD	GF	f	259470.2	35.84
31	HFD	GF	f	-	-
32	HFD	GF	m	582817.6	65.48
33	HFD	GF	m	110232.9	17.86
34	HFD	GF	f	196880	24.46
35	HFD	GF	f	247345.1	38.96
36	HFD	GF	f	485075.4	46.04
37	HFD	CONV-R	f	75126.8	12.35
38	HFD	CONV-R	f	246914.1	23.1
39	HFD	CONV-R	f	634793.8	50.87
40	HFD	CONV-R	f	98119.3	16.33

**Supplementary Table 2.** Absolute and relative values for atherosclerotic plaque area at the carotid artery of the 40 CONV-R (in grey) and GF (in white) animals fed with HFD. Animals are color-coded as in **Figure 2 (C-E)**: males are listed in blue, while females in red.