

Supplementary Table 1. Plasma proteomic profiling in LC young, LC aging, and PUFA aging mice at baseline (d0 control), at d1 and d5 post-MI

	day 0 controls			Post-MI day 1			Post-MI day 5		
	LC young	LC aging	PUFA aging	LC young	LC aging	PUFA aging	LC young	LC aging	PUFA aging
Apolipoprotein A-I μg/ml	49±15	154±6*¥	151±16*¥	70±15*	117±8*	133±4*¥	150±11*	191±14*	206±26*
C-reactive protein μg/ml	4.1±0.5	4.8±0.4	4.1±1.3	8.7±0.3*	8.0±1.0*	7.7±0.3*	7.0±0.5*	4.8±0.5	3.8±0.4¥
CD40 pg/ml	25±2	20±1	23±1	33±1	26±6*	46±6*¥	28±2	41±9*¥	48±6*¥
CD40 Ligand pg/ml	2250±150	1119±236*	1626±566*	3613±806	1493±374	1203±88	1444±175*	2807±755*	2787±211*
Eotaxin pg/ml	855±55	997±76	1675±355*	1289±165*	1317±232*	1515±195	857±65	1138±137*	1373±200*
Factor VII ng/ml	30±1	33.5±4.5	32.0±3.4	37±4	29.0±3.0	39.5±13.5	52.2±1.0*	36.5±2.1*	45.5±8.0*
Fibrinogen mg/ml	70±1	64±4	71±9	128±1*	171±10*	208±20*¥	102±6*	109±14*	124±8*
Granulocyte Chemotactic Protein-2 Mouse ng/ml	4.2±0.23	3.2±0.05*	5.1±0.63	5.4±0.3	2.3±0.63*	3.4±1.23*	4.2±0.3	7.1±3.0	3.7±1.01*¥
Growth Hormone ng/ml	6.4±1.5	7.7±2.0	12.2±3.7*	18±3.2*	16.0±5.0*	21.7±3.3*¥	23.2±4.0*	30.4±6.0*	47.1±9.5*¥
Growth-Regulated Alpha Protein ng/ml	0.04±0.01	0.12±0.1*	0.041±0.1*	0.2±0.1	0.03±0.1	0.10±0.2	0.1±0.1	0.10±0.2	0.06±0.1
Haptoglobin μg/ml	90±13	87±24	87±22	178±8*	193±8*	180±7*	130±12*	120±9*	149±15*
Immunoglobulin A	60±13	67±26	59±6	86±18	74±16	70±6	108±22*	82±16	85±14

µg/ml									
Interferon gamma Induced Protein 10 pg/ml	55±14	84±1	147±6*¥	74±34*	45±12*	51±3*	96±20*	92±17*	136±41*¥
Interleukin-1 alpha pg/ml	170±30	N.D.	N.D.	208±20*	N.D.	126±19	116±14*	158±30*	95±5*¥
Interleukin-6 pg/ml	13±6	N.D.	N.D.	44±1*	19.7±6.0*	34.5±3.2*	34±8*	40.1±10*	22.1±7*
Interleukin-18 ng/ml	9±3	19±1*	22±1*¥	16±2*	21±2*	20±1*	24±2*	26±1*	22±1
Leptin ng/ml	1.7±0.4	2.0±0.7	2.0±0.5	1.4±0.2	1.5±0.3	2.5±0.7¥	1.8±0.6	2.0±0.8	2.4±0.8
Leukemia Inhibitory Factor pg/ml	980±54	634±15	814±79	1193±107*	699±140	665±59	1088±86*	735±97	748±79
Lymphotactin pg/ml	79±7	60±6	126±5*¥	76±12	51±5	53±5*	91±16	50±5	101±22¥
Macrophage Colony-Stimulating Factor-1 ng/ml	4.9±0.1	4.8±1.0	5.6±0.7	5.1±0.1	4.6±0.3	4.5±0.2	5.2±0.1	5.4±0.1	6.8±0.2
Macrophage-Derived Chemokine pg/ml	1570±99	1290±70	1703±294*	1924±134*	1590±308	1590±149	1596±101	1015±104	1269±159
Macrophage Inflammatory Protein-1alpha ng/ml	4.0±0.3	5.2±0.7	5.0±0.4	6.1±1.0	6.3±0.1	6.5±0.3	7.2±0.4*	5.5±0.3	5.8±0.3¥
Macrophage	90±7	N.D.	N.D.	140±14	N.D.	199±174	84±13	119±24	207±119¥

Inflammatory Protein-1 beta pg/ml									
Macrophage Inflammatory Protein-1 gamma ng/ml	17±1	23±2	28±4*	24±2*	33±2*	50±3*¥	22±2*	33±4*	31±2*¥
Macrophage Inflammatory Protein-3 beta ng/ml	2.0±0.4	2.1±0.1	3.5±0.3*¥	2.2±0.2	2.4±0.3	2.4±0.1	3.1±0.1*	2.4±0.2	2.5±0.1
Matrix Metalloproteinase-9 ng/ml	84±6	106±4	138±14*¥	128±9*	113±9	126±9	94±7	132±13*	148±15*¥
Monocyte Chemotactic Protein 3 pg/ml	191±15	184±8	220±32*¥	502±50*	252±41*	328±16*¥	244±32*	254±65*	301±37*
Monocyte Chemotactic Protein-5 pg/ml	16±1	13±1	28±14*¥	36±4*	29±6*	39±8*	25±3	21±7	21±2
Myeloperoxidase ng/ml	70±3	102±1	86±2	181±10*	175±12*	181±21*	122±13*	119±9*	155±15*¥
Myoglobin ng/ml	126±25	75±5*	43±13*¥	112±10	48±6*	184±80*	154±42*	103±35*	71±29*¥
Plasminogen	0.3±0.2	0.5±0.5	0.4±0.4	1.2±1.0*	1.5±1.5*	3.0±3.0*¥	3.5±2.0*	6.0±6.0*	3.3±3.3*

Activator Inhibitor 1 ng/ml									
Stem Cell Factor pg/ml	375±25	520±55*	592±94*¥	435±56*	454±50*	793±73¥	315±21	521±55*	479±29
Tissue Inhibitor of Metalloproteinases 1 Mouse ng/ml	1.2±0.2	0.65±0.1	1.3±0.2*¥	5.2±0.4*	3.0±0.3	5.6±0.7¥	4.3±1.0*	3.8±0.3*	3.5±0.4*
Vascular Cell Adhesion Molecule- 1 ng/ml	1040±29	1410±137	2467±508* ¥	426±50*	1210±68*	1578±55*¥	816±5*	1446±192	1697±137* ¥
Vascular Endothelial Growth Factor A pg/ml	295±40	528±48	607±145*¥	425±54	623±60	739±48*¥	289±20	609±57¥	592±38¥
von Willebrand factor ng/ml	290±55	446±43*	522±86*	374±30	584±54*	743±47*	414±43	525±65*¥	774±76*¥

Data are mean ± SEM. *P<0.05 vs LC young, *p<0.05 vs day 0, ¥p<0.05 PUFA aging vs LC young or LC aging at respective time point by ANOVA.