SUPPLEMENT MATERIAL: TABLES AND FIGURES

Tissue-specific RNA-Seq in Human Evoked Inflammation Identifies Blood and Adipose LincRNA Signatures of Cardio-metabolic Diseases

Running title: LincRNA signatures in evoked inflammation

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Supplementary Table I. Clinical characteristics of additional RNA-Seq subjects (N=7) as well as subject A (A) at baseline and (B) during endotoxemia

(A)

	Subject A	Additional RNA-Seq Subjects (N=7) Mean (SD)
Age (Years)	34	24.9 (4.9)
Total Cholesterol (mg/dL)	147	161 (29)
HDL-Cholesterol (mg/dL)	66	59 (13)
Triglycerides (mg/dL)	63	65 (19)
LDL-Cholesterol (mg/dL)	68	89 (24)
Systolic Blood Pressure (mmHg)	112	106 (12)
Diastolic Blood Pressure (mmHg)	66	60 (6.6)
Glucose (mg/dL)	79	88 (9)

(B)

		Subject A	Additional RNA-Seq Subjects (N=7) Mean (SD)
IL-6 (pg/ml)	**Baseline**	3.9	3.1 (1.9)
	Peak (2hour)	294	270 (314)
	Fold Change	76	87
	Percentile of peak	**84th**	
TNFα (pg/ml)	**Baseline**	0.8	1.5 (0.9)
	Peak (2 hour)	50	43 (36)
	Fold Change	65	29
	Percentile of peak	**64th**	
CRP (mg/L)	**Baseline**	0.8	0.9 (0.5)
	Peak (24 hour)	20	14 (6.1)
	Percentile of peak	**67th**	
SAA (mg/L)	**Baseline**	2.6	5.4 (2.0)
	Peak (24 hour)	81	79 (34)
	Percentile of peak	**52nd**	
Temp. (°F)	**Baseline**	98.6	98.0 (0.4)
	Peak	100.2	98.8 (0.6)
	Percentile of peak	**87th**	

GENE=Genetics of Evoked-responses to Niacin and Endotoxemia; HDL=high-density lipoprotein; LDL=low density lipoprotein; IL=interleukin; TNF=tumor necrosis factor; CRP=C reactive protein; SAA=serum amyloid A. Temp=temperature.

Supplementary Table II A. Mapping statistics for blood, adipose and peripheral blood mononuclear cell (PBMC) RNA-seq data of Subject A. Data were aligned to the hg19 reference genome using Tophat. Several filtering steps were applied: 1) the mapping quality score of each read is ≥30, 2) reads from the same pair are mapped to the same chromosome with expected orientations and the mapping distance between the read pair is < 500,000 bp, and 3) each read is uniquely mapped to the genome.

Dataset	Tissue	Time	# reads	# reads mapped (%)	# reads after filtering and removal of MT reads (%)	# reads after removal of hemoglobin reads (%)
"500M"	Blood	Before LPS	975,716,014	923,005,020 (94.6%)	585,846,896 (60.0%)	291,687,188 (29.9%)
		After LPS	1,401,930,558	1,379,325,458 (98.4%)	880,867,214 (62.8%)	392,057,816 (28.0%)
	Adipose	Before LPS	911,584,508	771,290,702 (84.6%)	481,769,060 (52.8%)	NA
		After LPS	1,039,937,222	856,379,122 (82.3%)	505,363,138 (48.6%)	NA
"50M"	Blood	Before LPS	116,058,338	108,022,800 (93.1%)	66,797,258 (57.6%)	35,288,901 (30.4%)
		After LPS	137,886,080	134,590,748 (97.6%)	85,165,976 (61.8%)	38,388,626 (27.8%)
	Adipose	Before LPS	66,603,980	57,113,510 (85.8%)	36,253,892 (54.4%)	NA
		After LPS	64,824,708	53,726,630 (82.9%)	32,587,354 (50.3%)	NA
"100M"	PBMCs	Before LPS	101,500,948	99,190,666 (97.7%)	90,639,392 (89.3%)	NA
		After LPS	128,544,798	115,915,271 (90.2%)	105,509,034 (82.1%)	NA

Supplementary Table II B. Mapping statistics for blood RNA-seq data of seven additional GENE study subjects. Data were aligned to the hg19 reference genome using GSNAP. Several filtering steps were applied: 1) the mapping quality score of each read is ≥30, 2) reads from the same pair are mapped to the same chromosome with expected orientations and the mapping distance between the read pair is < 500,000 bp, and 3) each read mapped to less than 10 places in the genome.

Subject	Tissue	Time	# reads	# reads mapped (%)	# reads after filtering and removal of MT reads (%)	# reads after removal of hemoglobin reads (%)
1	Blood	Pre-LPS	176,120,502	166,648,428 (94.6%)	130,887,262 (74.3%)	94,751,655 (53.8%)
		Post-LPS	189,518,510	182,407,306 (96.2%)	141,400,070 (74.6%)	106,107,392 (56.0%)
2	Blood	Pre-LPS	158,031,602	150,871,260 (95.5%)	100,242,102 (63.4%)	58,898,371 (37.3%)
		Post-LPS	164,482,152	158,489,144 (96.4%)	102,181,126 (62.1%)	56,525,292 (34.4%)
3	Blood	Pre-LPS	153,597,648	148,791,570 (96.9%)	105,166,412 (68.5%)	75,780,112 (49.3%)
		Post-LPS	192,453,406	186,797,464 (97.1%)	128,601,256 (66.8%)	84,673,129 (44.0%)
4	Blood	Pre-LPS	151,948,182	146,913,170 (96.7%)	95,166,104 (62.6%)	37,779,321 (24.9%)
		Post-LPS	165,268,858	159,924,606 (96.8%)	126,075,138 (76.3%)	75,380,501 (45.6%)
5	Blood	Pre-LPS	162,010,742	157,034,248 (96.9%)	102,286,622 (63.1%)	47,226,530 (29.2%)
		Post-LPS	153,595,830	149,102,820 (97.1%)	79,820,178 (52.0%)	25,004,218 (16.3%)
6	Blood	Pre-LPS	156,102,402	155,100,101 (99.4%)	113,571,464 (72.8%)	73,517,123 (47.1%)
		Post-LPS	230,214,416	227,611,861 (98.9%)	164,107,124 (71.3%)	101,419,425 (44.1%)
7	Blood	Pre-LPS	194,244,710	192,452,582 (99.1%)	110,906,433 (57.1%)	36,321,060 (18.7%)
		Post-LPS	181,039,184	178,692,110 (98.7%)	109,483,021 (60.5%)	25,438,311 (14.1%)

Supplementary Table III A: LPS-modulated lincRNAs in blood of subject A deeply sequenced data. Highlighted are those that were selected for validation.

lincRNA	locus	FPKM (pre-LPS)	FPKM (post-LPS)	p value	q value
linc-C2orf54-1	2:241894035-241906868	6.95	0.06	0.00E+00	0.00E+00
linc-CSTB-3	21:45224584-45232448	8.77	0.29	0.00E+00	0.00E+00
linc-CMC1-2	**3:27753780-27755870**	**8.21**	**0.77**	**5.71E-14**	**2.18E-11**
linc-TMEM105-2	17:79361984-79367287	2.31	0.14	1.74E-10	2.58E-08
linc-PPP2R2C-2	4:6689174-6692251	4.55	0.44	5.04E-09	4.97E-07
linc-C17orf87	17:5142427-5145921	5.15	0.93	5.75E-09	5.60E-07
linc-PRDM9-7	5:17444118-17485937	0.31	4.39	1.38E-08	1.18E-06
linc-TACC3	4:1546984-1555291	1.33	0.29	1.47E-08	1.24E-06
linc-AP2B1-2	17:33640517-33652444	7.93	2.13	7.97E-08	5.56E-06
linc-BRAP-2	12:112277506-112331228	14.91	4.31	1.43E-07	9.19E-06
linc-CTSD-2	11:1792622-1793111	2.14	27.37	1.50E-07	9.60E-06
linc-LY6H	8:144362332-144363898	15.22	3.49	2.74E-07	1.57E-05
linc-LFNG	7:2477397-2488305	4.88	1.59	6.41E-07	3.08E-05
linc-EFR3B	2:25194980-25262563	3.71	0.27	9.35E-07	4.26E-05
linc-ARFGEF2-4	20:46983956-47000425	2.82	0.87	1.00E-06	4.52E-05
linc-TP53I13	**17:27894166-27895678**	**28.28**	**8.36**	**1.73E-06**	**7.08E-05**
linc-HES5-2	1:2481358-2486841	4.37	0.93	2.21E-06	8.73E-05
linc-BCL3	19:45240861-45250906	0.14	1.31	2.68E-06	1.01E-04
linc-FAM84B-9	8:128128655-128241550	0.64	0.06	2.69E-06	1.01E-04
linc-ZNF599-3	19:35329964-35351417	19.90	5.19	4.26E-06	1.48E-04
linc-PAXIP1-6	7:155056156-155059857	0.21	0.01	4.81E-06	1.64E-04
linc-C5orf32-1	5:139541537-139553608	1.55	0.36	5.03E-06	1.70E-04
linc-IL6-1	7:22602904-22641942	1.75	0.30	5.27E-06	1.77E-04
linc-SYT4-1	18:42257060-42259599	2.09	0.28	5.90E-06	1.96E-04
linc-CDH4-4	20:58895894-58900316	2.35	11.93	5.96E-06	1.97E-04
linc-TMEM206-2	1:212800568-212811902	0.68	0.04	7.23E-06	2.31E-04
linc-MTRNR2L6-3	7:141870969-141923474	0.42	2.83	7.44E-06	2.35E-04
linc-MUC20-1	3:195435001-195438746	20.90	5.88	8.03E-06	2.49E-04
linc-SATB2-2	2:200527509-200715899	0.92	0.03	9.45E-06	2.85E-04
linc-GLI2-3	2:121334544-121362263	0.04	0.75	1.14E-05	3.29E-04
linc-CLDN9	16:3039054-3044510	0.61	1.79	1.65E-05	4.42E-04
linc-CA5A-2	16:88210868-88220609	0.44	0.03	1.72E-05	4.59E-04
linc-TRMT112-1	11:64161813-64163303	3.06	0.39	2.18E-05	5.54E-04
linc-ARIH2	3:48885369-48893739	1.67	0.24	2.35E-05	5.91E-04
linc-MAPK8IP2	22:51021454-51038732	3.67	0.94	3.10E-05	7.39E-04
linc-CERK-7	22:47857048-47882860	0.85	0.03	3.45E-05	8.03E-04
linc-RBFOX2-1	22:36517579-36525898	4.35	0.62	3.46E-05	8.05E-04
linc-VEZF1	17:56066402-56072211	20.09	8.10	3.66E-05	8.44E-04
linc-RGPD8-2	2:113399406-113403306	12.23	3.69	4.14E-05	9.27E-04
linc-GRIK3-2	1:37920479-37940044	2.24	0.25	4.27E-05	9.50E-04
linc-ADI1	2:3579404-3584463	4.57	1.15	4.45E-05	9.83E-04
linc-HIST1H2AG-4	6:26673487-26688063	2.29	0.68	5.05E-05	1.08E-03
linc-CSTB-1	21:45576306-45580684	12.32	3.68	5.19E-05	1.11E-03
linc-BOD1-2	5:173205285-173220885	0.00	0.64	5.34E-05	1.13E-03
linc-DZIP1	13:96301011-96329209	0.20	1.15	5.63E-05	1.18E-03
linc-ID2-3	2:7865832-7870836	50.41	6.41	1.01E-04	1.87E-03
linc-HS3ST3A1-1	17:13679959-13685245	0.50	0.05	1.09E-04	1.99E-03
linc-CD40LG	X:135721701-135724588	3.71	1.14	1.25E-04	2.20E-03
linc-PTP4A3-1	8:142384279-142392326	1.09	0.05	1.38E-04	2.36E-03
linc-RREB1-3	6:6891669-6899654	0.01	0.51	1.66E-04	2.71E-03

linc-HMCN1-2	1:185339833-185344123	0.14	1.59	1.69E-04	2.74E-03
linc-ANKRD33B-2	5:10479482-10482421	0.08	1.55	1.69E-04	2.74E-03
linc-PELI1-5	2:64501018-64568781	1.16	6.48	1.86E-04	2.94E-03
linc-ARFIP1-4	**4:153021905-153025789**	**41.99**	**13.43**	**2.02E-04**	**3.14E-03**
linc-KLF7-2	2:208041220-208124809	0.74	0.16	2.03E-04	3.15E-03
linc-BMS1-4	10:38714746-38741081	0.64	0.14	2.15E-04	3.31E-03
linc-STIL-2	1:47846386-47874257	0.56	0.03	2.22E-04	3.40E-03
linc-RALGAPB	20:37075296-37079564	3.02	0.49	2.25E-04	3.43E-03
linc-KLK3-2	19:51311910-51322134	0.66	0.11	2.32E-04	3.50E-03
linc-MDM1-1	12:68825626-68845357	1.49	0.07	2.80E-04	4.06E-03
linc-FAM82A1-3	2:37827039-37839573	4.66	1.43	2.84E-04	4.10E-03
linc-RTEL1	20:62258579-62260177	64.38	17.41	2.84E-04	4.10E-03
linc-C12orf74-1	12:92951147-92977935	1.02	0.15	3.31E-04	4.60E-03
linc-TMEM194A	12:57477094-57481646	0.37	0.01	3.53E-04	4.80E-03
linc-FBXO16-2	8:28536528-28558836	0.62	0.10	3.54E-04	4.81E-03
linc-SEMG1	20:43808588-43821571	11.68	34.64	3.59E-04	4.86E-03
linc-C1orf201-1	1:24822804-24882323	2.29	0.39	3.69E-04	4.97E-03
linc-KATNAL1-3	13:30890496-30951282	8.78	4.59	3.84E-04	5.11E-03
linc-CDK17-4	12:98879321-98897676	0.47	0.04	3.86E-04	5.13E-03
linc-ZDHHC11	5:858993-860350	1.12	0.17	4.00E-04	5.28E-03
linc-RBL2	16:53412401-53423133	0.81	3.45	4.18E-04	5.44E-03
linc-TMEM99-4	17:38673266-38683253	3.33	0.87	4.27E-04	5.53E-03
linc-C14orf4-2	14:77507349-77552800	4.15	1.36	4.28E-04	5.54E-03
linc-IL1R1	2:102661124-102674449	0.02	0.79	4.45E-04	5.67E-03
linc-ATP6V1C2-4	2:10589125-10597755	1.05	0.23	4.79E-04	5.99E-03
linc-CSMD1-1	8:6261076-6264069	1.38	0.45	5.66E-04	6.78E-03
linc-NUDT4-4	12:93397337-93771512	0.35	0.02	5.66E-04	6.78E-03
linc-STIM2-1	4:26846789-26860575	17.16	6.21	5.68E-04	6.79E-03
linc-SLC39A10-10	2:192559714-192563971	3.18	13.70	5.71E-04	6.82E-03
linc-SP110-2	2:231554953-231565244	0.00	0.48	5.83E-04	6.92E-03
linc-CARD11-10	7:3133764-3157650	2.32	0.51	6.39E-04	7.45E-03
linc-ZNF131-5	5:42950962-42960649	0.28	0.06	6.70E-04	7.73E-03
linc-ACSL1-1	4:185748077-185776836	3.86	10.13	7.34E-04	8.31E-03
linc-EFR3A-4	8:128806778-129113503	17.25	5.91	7.40E-04	8.34E-03
linc-CST7-1	20:24911302-24912191	0.00	10.64	8.08E-04	8.85E-03
linc-LPHN2-1	1:81001439-81112834	7.53	1.56	8.12E-04	8.88E-03
linc-COL5A1-5	9:137371780-137375298	0.43	0.03	8.37E-04	9.02E-03
linc-XIRP2-4	2:166651360-166666520	0.84	4.02	8.96E-04	9.54E-03
linc-P2RY6	11:72964637-72970234	1.41	0.29	8.96E-04	9.54E-03
linc-CES2-2	16:66926839-66930900	0.65	0.08	9.06E-04	9.61E-03
linc-MIA3-1	1:222731243-222766374	0.44	0.05	9.36E-04	9.90E-03
linc-NGFR-4	17:47308233-47316621	2.29	0.13	9.41E-04	9.94E-03
linc-CSTB-9	21:45619131-45621216	0.19	0.01	9.47E-04	9.97E-03
linc-SEC24B-2	4:109592410-109602985	0.11	0.01	9.85E-04	1.02E-02
linc-NSUN2-3	5:6686437-6710411	0.58	0.09	1.04E-03	1.06E-02
linc-ZNF681-4	19:28192407-28285209	4.08	1.98	1.06E-03	1.07E-02
linc-CSPP1	8:67782983-67838589	0.03	0.54	1.11E-03	1.11E-02
linc-CTBP1-4	4:1573435-1582249	44.46	16.73	1.20E-03	1.18E-02
linc-MUC20-2	3:195367105-195377621	4.31	0.97	1.24E-03	1.21E-02
linc-COL18A1-4	21:46707964-46730404	3.29	0.96	1.34E-03	1.28E-02
linc-TRIP11	14:92511119-92516990	1.75	0.39	1.35E-03	1.28E-02
linc-TMEM206-5	1:212603321-212606095	0.87	0.04	1.37E-03	1.30E-02
linc-ITGB1	10:33362427-33405711	5.30	1.38	1.39E-03	1.31E-02

linc-WDTC1	1:27364504-27391197	0.01	0.13	1.42E-03	1.33E-02
linc-IRF2BP2-3	1:235108773-235116505	0.35	4.53	1.51E-03	1.39E-02
linc-FAM92B-3	16:85613415-85617197	1.58	0.20	1.64E-03	1.48E-02
linc-POTED-8	21:9825743-9826389	10.03	2.61	1.90E-03	1.65E-02
linc-IL4R-2	16:27236314-27301839	0.25	0.03	1.97E-03	1.69E-02
linc-PFDN4-2	20:52556698-52559047	0.02	0.63	2.02E-03	1.72E-02
linc-FOXQ1-2	6:693956-713766	2.00	0.15	2.02E-03	1.72E-02
linc-IRF2BP2-1	1:235087870-235105809	3.27	8.81	2.03E-03	1.73E-02
linc-MKLN1-1	7:130600638-130624493	0.56	0.13	2.06E-03	1.74E-02
linc-ADAMTSL4	1:150504636-150509813	0.28	0.03	2.09E-03	1.76E-02
linc-C13orf33-2	13:31377342-31384782	0.08	0.75	2.09E-03	1.76E-02
linc-WDR53-1	3:196358368-196359460	1.71	0.13	2.12E-03	1.77E-02
linc-RAB37	17:72601128-72603313	5.42	2.40	2.21E-03	1.82E-02
linc-CDC42EP3	2:38053389-38103451	1.63	4.57	2.21E-03	1.82E-02
linc-CGNL1-2	15:57592038-57600717	61.20	26.89	2.24E-03	1.84E-02
linc-IL2RG	X:70403408-70418025	4.36	1.10	2.30E-03	1.87E-02
linc-GIMAP8-1	7:150130741-150145228	0.73	0.21	2.32E-03	1.88E-02
linc-ZNF583-1	19:56904996-56915279	2.28	0.82	2.35E-03	1.90E-02
linc-GPR123-2	10:134827222-134828171	18.09	49.01	2.37E-03	1.90E-02
linc-TTLL7-2	1:84542061-84543595	0.36	0.04	2.38E-03	1.91E-02
linc-LDB2-3	4:17460263-17462011	0.96	0.12	2.46E-03	1.95E-02
linc-HEATR2-2	7:560027-565027	3.12	7.08	2.49E-03	1.96E-02
linc-RHOU	1:228688982-228697976	4.50	0.94	2.52E-03	1.98E-02
linc-SPNS3	17:4062959-4063996	1.16	0.10	2.64E-03	2.05E-02
linc-SERHL2-3	22:42665758-42673855	1.12	0.31	2.80E-03	2.14E-02
linc-PTCD3-2	2:86116277-86144322	2.27	0.46	2.90E-03	2.19E-02
linc-C10orf122-2	10:127371811-127408062	1.64	0.03	2.93E-03	2.20E-02
linc-NUMB	14:73925555-73932873	26.66	50.38	2.94E-03	2.20E-02
linc-FNDC1-3	6:159528337-159537085	0.52	0.05	2.98E-03	2.22E-02
linc-MEIS2-4	15:38360990-38365188	0.29	0.04	2.98E-03	2.22E-02
linc-RPL19-3	17:37081420-37085637	0.18	0.00	2.98E-03	2.22E-02
linc-NRF1	7:129165372-129172230	0.42	0.03	3.04E-03	2.26E-02
linc-HELT-4	4:185748077-185776836	0.03	0.22	3.13E-03	2.31E-02
linc-MYOD1	11:17402305-17403209	1.61	0.33	3.13E-03	2.31E-02
linc-TCERG1L-3	10:133730127-133733387	0.22	0.01	3.18E-03	2.34E-02
linc-C14orf177-1	14:98602414-98628990	12.06	2.73	3.37E-03	2.43E-02
linc-PRSS27	16:2787076-2821413	0.31	0.00	3.37E-03	2.43E-02
linc-ITIH2-13	10:6319649-6377937	0.01	0.21	3.66E-03	2.57E-02
linc-GLYATL2	11:58897609-58903816	1.95	0.71	3.79E-03	2.64E-02
linc-C7orf45-2	7:129780902-129782455	0.88	0.00	3.94E-03	2.72E-02
linc-TNFRSF14	1:2481358-2486841	10.03	3.84	4.01E-03	2.75E-02
linc-ARMC2	6:109072856-109091145	0.03	0.26	4.03E-03	2.77E-02
linc-ANO10-2	3:44462618-44465499	16.71	47.84	4.10E-03	2.80E-02
linc-NBPF9-9	1:121138613-121204983	0.26	0.05	4.14E-03	2.82E-02
linc-COPG-2	3:128949392-128955149	1.29	4.13	4.38E-03	2.94E-02
linc-PARP10-2	8:145069126-145082072	0.18	0.01	4.61E-03	3.06E-02
linc-C15orf42-2	15:89918592-89941720	1.80	0.74	4.63E-03	3.07E-02
linc-GALNT2	1:230138431-230142912	0.49	0.00	4.66E-03	3.08E-02
linc-WDR7-7	18:52495707-52565201	0.54	0.00	4.86E-03	3.18E-02
linc-ASB7-3	15:100882801-100892899	0.41	0.08	4.88E-03	3.18E-02
linc-RNASEH1-3	2:3616112-3622828	0.22	0.04	4.91E-03	3.20E-02
linc-RIMKLB	12:8717333-8718789	0.00	0.37	4.95E-03	3.21E-02
linc-TUBGCP3-2	13:113341523-113344135	3.67	1.56	4.97E-03	3.23E-02

linc-LMF1	16:1041084-1043057	5.00	1.57	4.97E-03	3.23E-02
linc-RPS7-1	2:3605975-3609462	0.80	0.11	5.03E-03	3.25E-02
linc-NR2F1-7	5:90597873-90621000	0.04	0.99	5.08E-03	3.27E-02
linc-CCND2	12:4320969-4322471	0.00	1.39	5.15E-03	3.29E-02
linc-AMZ2-2	17:66179198-66185240	0.74	0.13	5.18E-03	3.30E-02
linc-SBDS-4	7:66795256-66829655	0.16	0.03	5.26E-03	3.34E-02
linc-C7orf23	7:86953597-86974837	20.00	7.84	5.29E-03	3.35E-02
linc-TRIM39-1	6:30255173-30314635	10.67	3.32	5.34E-03	3.38E-02
linc-INHBB	2:121060713-121085769	0.83	0.00	5.45E-03	3.42E-02
linc-CADM1-3	11:115626035-115631345	0.18	0.03	5.45E-03	3.42E-02
linc-SLC25A45-5	11:65265232-65278498	1090.00	487.10	5.59E-03	3.48E-02
linc-PRKAA2-8	1:56289439-56333921	0.00	2.70	5.66E-03	3.50E-02
linc-PRSS12-1	4:119584228-119596884	0.11	0.01	5.84E-03	3.57E-02
linc-KLHL18-3	3:47205719-47388306	1.78	0.28	5.90E-03	3.60E-02
linc-MAN2A2	15:91446089-91446964	0.36	2.87	5.91E-03	3.60E-02
linc-SLC6A6	3:14266505-14272302	0.31	0.00	5.94E-03	3.61E-02
linc-CCND1-4	11:69184376-69187267	0.20	0.03	5.98E-03	3.62E-02
linc-VSIG10	12:118552480-118573755	0.59	0.17	6.36E-03	3.78E-02
linc-RPL21-1	13:27746395-27760746	2.88	0.28	6.38E-03	3.79E-02
linc-TSPAN10	17:79604196-79606203	0.01	0.11	6.42E-03	3.80E-02
linc-GZMK	5:53939759-53942025	0.00	0.59	6.50E-03	3.84E-02
linc-PITRM1-3	10:3507668-3545058	0.00	0.15	6.50E-03	3.84E-02
linc-CTSD-3	11:2004438-2011150	3.99	1.73	6.77E-03	3.94E-02
linc-CHD1L-1	1:146644349-146648626	0.36	0.04	7.17E-03	4.09E-02
linc-GLI2-2	2:121334544-121362263	0.00	0.38	7.32E-03	4.14E-02
linc-H1FNT	12:48606566-48639062	0.16	0.00	7.32E-03	4.14E-02
linc-MED12L	3:150608646-150610167	1.57	7.13	7.36E-03	4.16E-02
linc-ZNF30-3	19:35329964-35351417	6.46	2.67	7.41E-03	4.18E-02
linc-C7orf27-3	7:2757466-2764726	0.32	0.08	7.54E-03	4.23E-02
linc-SPR-2	2:71923939-72005321	0.00	0.22	7.65E-03	4.26E-02
linc-FAM20C-2	7:149596-155427	3.24	1.48	7.84E-03	4.32E-02
linc-COTL1-2	16:84981783-84984093	0.00	0.29	7.88E-03	4.34E-02
linc-DTYMK-3	2:242671428-242673870	0.16	0.00	8.18E-03	4.44E-02
linc-HEATR2-3	7:465455-468067	0.17	0.01	8.50E-03	4.55E-02
linc-BBC3	19:47742377-47747476	0.00	0.92	8.51E-03	4.55E-02
linc-FAR2-2	12:28723547-28734479	0.56	0.13	8.56E-03	4.57E-02
linc-WNT8B	10:102133332-102154988	3.27	1.62	8.59E-03	4.58E-02
linc-UBL5-4	19:9649408-9650405	0.35	0.02	8.86E-03	4.69E-02
linc-MICA-2	6:31165536-31196425	111.00	197.25	9.07E-03	4.76E-02
linc-AP3B1	5:77638188-77656217	4.05	1.36	9.32E-03	4.85E-02
linc-GPR65-6	14:86378384-86596675	2.75	1.26	9.43E-03	4.88E-02
linc-PPP1R1B	17:37706689-37723895	20.52	12.26	9.43E-03	4.88E-02
linc-CA8-4	8:61822076-61823092	2.26	0.13	9.57E-03	4.92E-02
linc-AKR1E2-6	10:3985204-4006403	0.40	0.00	9.60E-03	4.93E-02
linc-ENPP4-1	6:45633187-45634483	0.05	0.45	9.74E-03	4.98E-02

Supplementary Table III B: LPS-modulated lincRNAs in adipose of subject A deeply sequenced data. Highlighted are those that were selected for validation.

lincRNA	locus	FPKM (pre-LPS)	FPKM (post-LPS)	p value	q value
linc-ZFC3H1-3	12:72647286-73059422	25.33	6.53	2.21E-08	3.56E-06
linc-TMEM30B	14:62022961-62121431	0.63	0.00	2.28E-08	3.56E-06
linc-TP53I13	**17:27894166-27895678**	**26.41**	**6.14**	**2.18E-07**	**1.98E-05**
linc-DMRT2	**9:1045425-1049242**	**9.36**	**3.04**	**3.31E-07**	**2.73E-05**
linc-LOC100129335-2	7:15728002-15736507	9.35	1.95	1.45E-06	8.09E-05
linc-TMEM105-2	17:79361984-79367287	1.19	0.19	3.48E-06	1.48E-04
linc-TSHZ3-6	19:32880955-32896445	0.19	4.69	4.05E-06	1.67E-04
linc-PRELP	1:203343729-203369257	2.59	0.88	2.92E-05	6.71E-04
linc-ARHGAP28-9	18:3466270-3478974	0.43	4.83	4.28E-05	8.87E-04
linc-GHRH	20:36120873-36137759	2.56	0.51	5.88E-05	1.11E-03
linc-DUSP26-5	8:37264138-37351420	0.05	0.78	6.79E-05	1.21E-03
linc-TACC3	4:1546984-1555291	0.54	0.13	9.61E-05	1.56E-03
linc-LY75	2:160780449-160792478	2.05	0.61	1.04E-04	1.67E-03
linc-SGCG-4	13:23500256-23509087	1.18	0.04	1.30E-04	1.95E-03
linc-PTGER4-4	5:39520510-39524809	4.10	19.26	1.58E-04	2.21E-03
linc-UBQLN2	X:56316469-56325981	0.68	0.06	1.84E-04	2.46E-03
linc-FAM71F2-1	7:128273068-128281168	0.78	0.13	2.02E-04	2.60E-03
linc-LEPROTL1-6	8:28915362-28922445	5.17	1.83	2.89E-04	3.35E-03
linc-ARIH2	3:48885369-48893739	1.15	0.18	4.07E-04	4.28E-03
linc-POTED-8	**21:9825743-9826389**	**2.95**	**0.40**	**5.31E-04**	**5.14E-03**
linc-NCAM1-2	11:112236379-112248544	0.73	0.09	5.32E-04	5.14E-03
linc-NBPF15-1	1:148556022-148558168	3.14	0.65	6.12E-04	5.69E-03
linc-HEATR2-2	7:560027-565027	0.31	1.35	7.10E-04	6.32E-03
linc-STX2-4	12:132377834-132378419	0.07	2.56	1.02E-03	8.00E-03
linc-CCND1-4	11:69184376-69187267	3.26	0.94	1.12E-03	8.47E-03
linc-VWF	12:6258940-6289931	0.14	1.75	1.58E-03	1.08E-02
linc-PENK-1	8:57406840-57472382	5.10	2.81	1.72E-03	1.15E-02
linc-LGALS12	11:63261874-63268083	0.06	0.70	2.04E-03	1.29E-02
linc-STIM2-1	4:26846789-26860575	4.85	1.69	2.14E-03	1.33E-02
linc-CEP110-13	9:120521860-120639328	0.12	1.71	2.82E-03	1.60E-02
linc-KIN-6	10:10825866-10837007	1.29	3.89	3.05E-03	1.68E-02
linc-SNTG2-3	2:663813-667014	0.88	0.28	3.24E-03	1.74E-02
linc-TPT1-2	13:45915479-45965618	0.91	0.21	3.55E-03	1.86E-02
linc-GARS-3	7:30428961-30452157	1.80	0.57	4.47E-03	2.17E-02
linc-HTR1D	1:23608314-23610576	0.94	0.22	4.50E-03	2.18E-02
linc-TCF7L2-3	10:114578563-114590547	0.56	0.19	5.12E-03	2.38E-02
linc-IARS2-3	1:219391857-219500273	0.69	0.10	5.56E-03	2.53E-02
linc-CDK10	16:89748721-89752704	0.64	0.00	5.74E-03	2.59E-02
linc-RHOXF1-1	X:119251427-119253610	1.24	0.15	6.76E-03	2.89E-02
linc-CGNL1-2	15:57592038-57600717	1.02	0.42	6.83E-03	2.91E-02
linc-KLF6-2	10:4242828-4285981	0.13	1.01	7.11E-03	2.99E-02
linc-SLC16A7-3	**12:58985430-59206436**	**21.52**	**45.23**	**7.75E-03**	**3.17E-02**
linc-TRPM1	15:31514041-31523050	0.85	0.26	7.89E-03	3.21E-02
linc-PNRC1	6:89673582-89675075	0.09	0.87	8.31E-03	3.33E-02
linc-CEP110-2	9:123555774-123561009	1.62	0.28	8.50E-03	3.38E-02
linc-HNRNPA3-4	2:177494308-177520707	0.13	1.38	8.74E-03	3.45E-02
linc-JAK1-4	1:65532309-65533420	1.35	0.13	8.75E-03	3.45E-02
linc-TGFBR2-2	3:30392213-30433637	0.18	1.04	8.88E-03	3.49E-02
linc-ANKRD20A1-4	9:67051144-67269646	0.69	0.09	9.12E-03	3.55E-02
linc-CHMP2B-1	3:87138429-87206685	1.32	0.27	1.06E-02	3.95E-02

linc-FAM71F2-3	7:128166277-128170972	0.81	0.24	1.06E-02	3.96E-02
linc-PDCD1-1	2:242835751-242844846	2.17	5.63	1.08E-02	4.01E-02
linc-TTC15-5	2:1753645-1757701	1.47	0.51	1.18E-02	4.26E-02
linc-ACSL1-1	4:185748077-185776836	1.44	3.72	1.20E-02	4.30E-02
linc-TMEM17	2:62801490-62889929	1.62	0.42	1.32E-02	4.62E-02
linc-HTR2A-3	13:48510590-48513514	0.00	0.87	1.36E-02	4.69E-02

Supplementary Table III C: LPS-modulated lincRNAs in blood of subject A lowly sequenced data.

lincRNA	locus	FPKM (pre-LPS)	FPKM (post-LPS)	p value	q value
linc-CSTB-3	21:45224584-45232448	7.86	0.25	2.22E-16	3.33E-13
linc-TMEM105-2	17:79361984-79367287	2.24	0.14	2.14E-08	2.27E-06
linc-TACC3	4:1546984-1555291	1.99	0.20	4.90E-07	3.19E-05
linc-PPP2R2C-2	4:6689174-6692251	4.58	0.39	5.26E-07	3.35E-05
linc-PTCD3-2	2:86116277-86144322	3.99	0.15	6.56E-07	4.00E-05
linc-C2orf54-1	2:241894035-241906868	6.26	0.09	1.07E-06	6.05E-05
linc-TP53I13	17:27894166-27895678	27.08	7.02	1.45E-06	7.72E-05
linc-ZNF599-3	19:35329964-35351417	17.28	3.29	5.78E-06	2.29E-04
linc-BRAP-2	12:112277506-112331228	13.15	3.23	8.31E-06	3.09E-04
linc-TMEM206-2	1:212800568-212811902	2.07	0.05	1.36E-05	4.62E-04
linc-CSTB-1	21:45576306-45580684	11.14	2.87	1.67E-05	5.50E-04
linc-AP2B1-2	17:33640517-33652444	9.89	2.28	2.36E-05	7.12E-04
linc-LFNG	7:2477397-2488305	4.86	1.46	2.79E-05	8.15E-04
linc-C17orf87	17:5142427-5145921	4.37	0.90	3.11E-05	8.89E-04
linc-LY6H	8:144362332-144363898	15.95	3.60	3.13E-05	8.94E-04
linc-FAM20C-2	7:149596-155427	4.63	0.77	6.40E-05	1.55E-03
linc-MAPK8IP2	22:51021454-51038732	7.19	0.52	1.10E-04	2.35E-03
linc-DEC1	9:117418235-117425007	1.27	0.12	1.15E-04	2.43E-03
linc-GRIK3-2	1:37920479-37940044	4.55	0.41	1.26E-04	2.59E-03
linc-MUC20-1	3:195435001-195438746	17.27	5.64	1.39E-04	2.77E-03
linc-CMC1-2	3:27753780-27755870	7.69	1.66	1.94E-04	3.63E-03
linc-NUMB	14:73925555-73932873	23.95	64.90	2.05E-04	3.80E-03
linc-TRMT112-1	11:64161813-64163303	3.24	0.28	2.19E-04	3.96E-03
linc-EFR3A-4	8:128806778-129113503	16.79	2.35	2.27E-04	4.05E-03
linc-PELI1-5	2:64501018-64568781	1.39	9.20	2.39E-04	4.17E-03
linc-SYT4-1	18:42257060-42259599	2.23	0.38	2.76E-04	4.72E-03
linc-MTRNR2L6-3	7:141870969-141923474	0.61	3.04	2.89E-04	4.90E-03
linc-VEZF1	17:56066402-56072211	19.29	7.21	2.92E-04	4.92E-03
linc-RBFOX2-1	22:36517579-36525898	4.14	0.48	2.93E-04	4.92E-03
linc-ARFIP1-4	4:153021905-153025789	39.02	11.59	3.45E-04	5.51E-03
linc-NSUN2-3	5:6686437-6710411	1.83	0.02	4.10E-04	6.10E-03
linc-XIRP2-4	2:166651360-166666520	0.60	4.79	4.38E-04	6.38E-03
linc-RALGAPB	20:37075296-37079564	3.66	0.36	4.99E-04	6.94E-03
linc-CTSD-2	11:1792622-1793111	3.98	23.54	5.58E-04	7.43E-03
linc-CARD11-10	7:3133764-3157650	2.81	0.45	6.95E-04	8.60E-03
linc-IL2RG	X:70403408-70418025	4.32	0.58	7.75E-04	9.27E-03
linc-SEMG1	20:43808588-43821571	9.65	29.71	1.09E-03	1.17E-02
linc-CDH4-4	20:58895894-58900316	2.54	10.07	1.08E-03	1.17E-02
linc-GLYATL2	11:58897609-58903816	1.89	0.51	1.47E-03	1.48E-02
linc-TMEM99-4	17:38673266-38683253	4.41	1.03	1.91E-03	1.79E-02
linc-RTEL1	20:62258579-62260177	59.88	19.09	1.91E-03	1.79E-02
linc-PRDM9-7	5:17444118-17485937	0.28	6.81	1.93E-03	1.79E-02
linc-USP35	11:77850805-77854134	1.27	0.04	1.94E-03	1.80E-02
linc-RBL2	16:53412401-53423133	0.89	3.32	1.97E-03	1.81E-02
linc-POTED-8	21:9825743-9826389	13.57	3.12	2.23E-03	1.97E-02
linc-TRIM39-1	6:30255173-30314635	13.29	3.37	2.30E-03	2.00E-02
linc-FAM82A1-3	2:37827039-37839573	3.39	0.75	2.67E-03	2.23E-02
linc-SLC25A45-5	11:65265232-65278498	1069.60	456.90	2.75E-03	2.27E-02
linc-RAB37	17:72601128-72603313	6.34	2.67	2.81E-03	2.30E-02

linc-FAM153A-2	5:177387461-177392855	4.11	0.42	2.81E-03	2.31E-02
linc-CGNL1-2	15:57592038-57600717	56.65	25.00	3.06E-03	2.44E-02
linc-C10orf122-2	10:127371811-127408062	2.74	0.00	3.31E-03	2.57E-02
linc-FAM92B-3	16:85613415-85617197	2.95	0.00	3.56E-03	2.67E-02
linc-SATB2-2	2:200527509-200715899	1.41	0.00	3.62E-03	2.70E-02
linc-P2RY6	11:72964637-72970234	1.38	0.24	3.88E-03	2.83E-02
linc-ITGB1	10:33362427-33405711	6.22	1.69	3.93E-03	2.84E-02
linc-CST7-1	20:24911302-24912191	0.00	11.40	3.98E-03	2.87E-02
linc-STIL-2	1:47846386-47874257	1.10	0.00	4.76E-03	3.22E-02
linc-IL1R1	2:102661124-102674449	0.00	1.55	4.76E-03	3.22E-02
linc-PPP1R1B	17:37706689-37723895	20.99	10.62	4.97E-03	3.31E-02
linc-SLC39A10-10	2:192559714-192563971	4.02	13.51	5.06E-03	3.35E-02
linc-GALNTL5-3	7:151078206-151110811	1.33	0.12	5.25E-03	3.43E-02
linc-C14orf4-2	14:77507349-77552800	3.52	0.88	5.39E-03	3.50E-02
linc-PKMYT1	16:3056585-3057374	0.49	4.28	6.04E-03	3.76E-02
linc-ANKRD27	19:33177953-33182862	1.26	0.00	6.28E-03	3.85E-02
linc-CERK-7	22:47857048-47882860	0.97	0.00	6.28E-03	3.85E-02
linc-BCL11B	14:99750983-99763570	5.51	0.78	6.32E-03	3.85E-02
linc-HAAO-3	2:43028633-43038968	5.11	0.33	7.47E-03	4.26E-02
linc-IER5L-2	9:132250938-132275965	2.64	0.83	7.60E-03	4.30E-02
linc-SERHL2-3	22:42665758-42673855	1.17	0.32	8.13E-03	4.48E-02
linc-NUSAP1	15:41576200-41598741	25.71	6.10	8.52E-03	4.59E-02
linc-PHF21B	22:45529452-45559662	2.20	0.41	8.63E-03	4.63E-02
linc-SPIN4	X:62617329-62780970	59.58	21.86	8.78E-03	4.68E-02
linc-KCMF1	2:85190234-85194331	4.43	1.21	8.81E-03	4.69E-02

Supplementary Table III D: LPS-modulated lincRNAs in adipose of subject A lowly sequenced data.

lincRNA	locus	FPKM (pre-LPS)	FPKM (post-LPS)	p value	q value
linc-DMRT2	9:1045425-1049242	11.22	3.53	3.47E-06	1.60E-04
linc-TP53I13	17:27894166-27895678	62.74	17.37	8.68E-06	3.45E-04
linc-ZKSCAN1-1	7:99594666-99609249	0.50	9.20	2.23E-05	7.98E-04
linc-LOC100129335-2	7:15728002-15736507	9.14	1.65	3.65E-05	1.16E-03
linc-ANKRD5-1	20:9966735-9987764	7.54	28.52	3.91E-05	1.21E-03
linc-POTED-8	21:9825743-9826389	8.70	1.24	2.70E-04	5.44E-03
linc-PTGER4-4	5:39520510-39524809	5.72	23.95	9.28E-04	1.38E-02
linc-TMED5	1:93770667-93811405	7.50	2.21	9.69E-04	1.43E-02
linc-TRIM29-3	11:121899034-121938108	1.89	8.01	1.62E-03	2.04E-02

Supplementary Table IV. Numbers of expressed and LPS-modulated lincRNAs in Subject A whole blood and peripheral blood mononuclear cell (PMBC) RNA-Seq data.

	Blood*	PBMC*	Overlap	#Percent Overlap
Pre-LPS	931	664	540	81% of PBMC in blood
Post-LPS	894	664	548	82% of PBMC in blood
LPS-modulated	201	122	58	48% of PBMC in blood
% LPS-modulated	21.6%	18.4%		

*RNA-seq depth was substantially deeper in subject A whole blood ("500M" data, see Suppl Table 2A) than in subject A PBMCs ("100M" data, Supple Table 2A). Thus, as expected, the number of lincRNAs detected and in particular LPS-modulated lincRNAs (see Suppl Figure 1) in PBMCs is lower than in whole blood. However, the percent of lincRNAs that were LPS-modulated in PBMCs (18.4%) was very similar to that LPS-modulated in whole blood (21.6%). #Of lincRNAs detected and LPS-modulated in PBMCs, there was substantial overlap with those detected and LPS-modulated in whole blood.

Supplementary Table V: Inflammatary and cardiometabolic traits in NHGRI GWAS catalogue

Index	Trait
1	Abdominal aortic aneurysm
2	Activated partial thromboplastin time
3	Adiponectin levels
4	Adiposity
5	Adiposity in newborns
6	Aging
7	Aging (time to death)
8	Aging (time to event)
9	Aging traits
10	Ankle-brachial index
11	Anticoagulant levels
12	Aortic root size
13	Aortic stiffness
14	Aortic-valve calcification
15	Apolipoprotein Levels
16	Arterial stiffness
17	Blood pressure
18	Body mass (lean)
19	Body mass index
20	Body mass index (interaction)
21	Body mass index and cholesterol (psychopharmacological treatment)
22	Body mass index and fat mass
23	Cardiac hypertrophy
24	Cardiac structure and function
25	Cardiac Troponin-T levels
26	Cardiovascular disease risk factors
27	Carotid atherosclerosis in HIV infection
28	Carotid intima media thickness
29	Cholesterol
30	Cholesterol and Triglycerides
31	Cholesterol, total
32	Circulating vasoactive peptide levels
33	Coagulation factor levels
34	Coronary arterial lesions in patients with Kawasaki disease
35	Coronary artery calcification
36	Coronary heart disease
37	Coronary restenosis
38	Coronary spasm
39	C-reactive protein
40	C-reactive protein and white blood cell count
41	Diabetes (gestational)
42	Diabetes (incident)
43	Diabetes related insulin traits
44	Diastolic blood pressure
45	Dietary macronutrient intake
46	Echocardiographic traits
47	Endothelial function traits
48	End-stage coagulation
49	Eosinophil counts

50	Erythrocyte sedimentation rate
51	E-selectin levels
52	Exercise treadmill test traits
53	Factor VII
54	Factor XI
55	Fasting glucose-related traits
56	Fasting glucose-related traits (interaction with BMI)
57	Fasting insulin-related traits
58	Fasting insulin-related traits (interaction with BMI)
59	Fasting plasma glucose
60	Fat distribution (HIV)
61	Fat intake
62	Fibrinogen
63	Formal thought disorder in schizophrenia
64	Glycated hemoglobin levels
65	Glycemic control in type 1 diabetes (HbA1c)
66	Glycemic traits
67	Haptoglobin levels
68	HbA2 levels
69	HDL cholesterol
70	HDL Cholesterol - Triglycerides (HDLC-TG)
71	Heart rate
72	Hematological parameters
73	Hematology traits
74	Hemostatic factors and hematological phenotypes
75	Homocysteine levels
76	Hypertension
77	Hypertension risk in short sleep duration
78	Hypertriglyceridemia
79	Hypertrophic cardiomyopathy
80	IgG glycosylation
81	IgM levels
82	Inflammatory biomarkers
83	Insulin resistance/response
84	Insulin-like growth factors
85	Insulin-related traits
86	Interleukin-18 levels
87	Intracranial aneurysm
88	Kawasaki disease
89	LDL (oxidized)
90	LDL cholesterol
91	Lean body mass and age at menarche (combined)
92	Left ventricular mass
93	Lipid levels in hepatitis C treatment
94	Lipid metabolism phenotypes
95	Lipid traits
96	Lipoprotein diameter
97	Lipoprotein-associated phospholipase A2 activity and mass
98	Lipoprotein-associated phospholipase A2 activity change in response to statin therapy
99	Longevity
100	Lp (a) levels
101	Matrix metalloproteinase levels

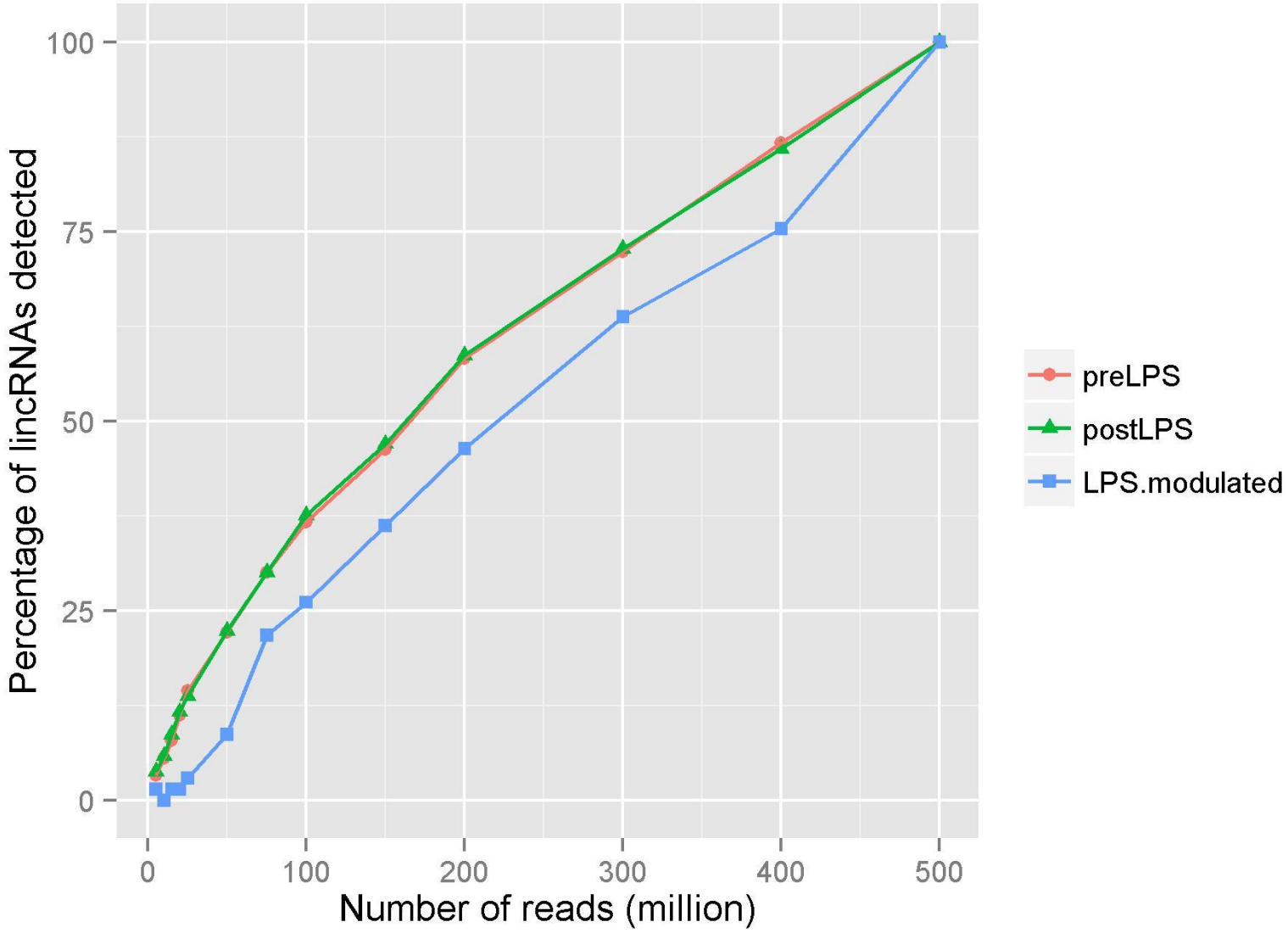
102	Mean platelet volume
103	Metabolic syndrome
104	Metabolic syndrome (bivariate traits)
105	Metabolic traits
106	Metabolite levels
107	Mitral annular calcification
108	Monocyte chemoattractant protein-1
109	Monocyte count
110	Morbidity-free survival
111	Moyamoya disease
112	Myocardial infarction
113	Myocardial infarction (early onset)
114	Natriuretic peptide levels
115	Neutrophil count
116	Nicotine dependence
117	Nonalcoholic fatty liver disease
118	Non-alcoholic fatty liver disease
119	Non-alcoholic fatty liver disease histology (AST)
120	Non-alcoholic fatty liver disease histology (lobular)
121	Non-alcoholic fatty liver disease histology (other)
122	Obesity
123	Obesity (early onset extreme)
124	Obesity (extreme)
125	Obesity and blood pressure
126	Obesity and osteoporosis
127	Obesity-related traits
128	Oleic acid (18:1n-9) plasma levels
129	Palmitic acid (16:0) plasma levels
130	Palmitoleic acid (16:1n-7) plasma levels
131	Paraoxonase activity
132	Pericardial fat
133	Peripheral artery disease
134	Phospholipid levels (plasma)
135	Phytosterol levels
136	Plasminogen activator inhibitor type 1 levels (PAI-1)
137	Platelet aggregation
138	Platelet counts
139	Platelet function and related traits
140	Platelet reactivity
141	Polycystic ovary syndrome
142	Polyunsaturated fatty acid levels
143	Preeclampsia
144	Presence of antiphospholipid antibodies
145	Proinsulin levels
146	Protein C levels
147	Prothrombin time
148	Pulmonary arterial hypertension (without BMPR2 mutations)
149	QT interval (interaction)
150	Resistin levels
151	Response to angiotensin II receptor blocker therapy
152	Response to angiotensin II receptor blocker therapy (opposite direction w/ diuretic therapy)
153	Response to antiplatelet therapy

154	Response to cerivastatin
155	Response to clopidogrel therapy
156	Response to fenofibrate
157	Response to fenofibrate (adiponectin levels)
158	Response to statin therapy
159	Response to statin therapy (LDL-C)
160	Select biomarker traits
161	Smoking behavior
162	Smoking cessation
163	Soluble E-selectin levels
164	Soluble ICAM-1
165	Soluble levels of adhesion molecules
166	Sphingolipid levels
167	Stearic acid (18:0) plasma levels
168	Stroke
169	Stroke (ischemic)
170	Subclinical atherosclerosis traits (other)
171	Subclinical brain infarct
172	Subcutaneous adipose tissue
173	Systolic blood pressure
174	Telomere length
175	Thiazide-induced adverse metabolic effects in hypertensive patients
176	Thoracic aortic aneurysms and dissections
177	Tonometry
178	Triglycerides
179	Triglycerides-Blood Pressure (TG-BP)
180	Two-hour glucose challenge
181	Type 2 diabetes
182	Type 2 diabetes (dietary heme iron intake interaction)
183	Type 2 diabetes and 6 quantitative traits
184	Type 2 diabetes and gout
185	Type 2 diabetes and other traits
186	Type 2 diabetes nephropathy
187	Urinary albumin excretion
188	Vascular constriction
189	Vascular dementia
190	Vascular endothelial growth factor levels
191	Venous thromboembolism
192	Venous thromboembolism (gene x gene interaction)
193	Visceral adipose tissue adjusted for BMI
194	Visceral adipose tissue/subcutaneous adipose tissue ratio
195	Visceral fat
196	vWF and FVIII levels
197	Waist circumference
198	Waist Circumference - Triglycerides (WC-TG)
199	Waist circumference and related phenotypes
200	Waist-hip ratio
201	Waist-to-hip circumference ratio (interaction)
202	Weight
203	White blood cell count
204	White blood cell types
205	YKL-40 levels

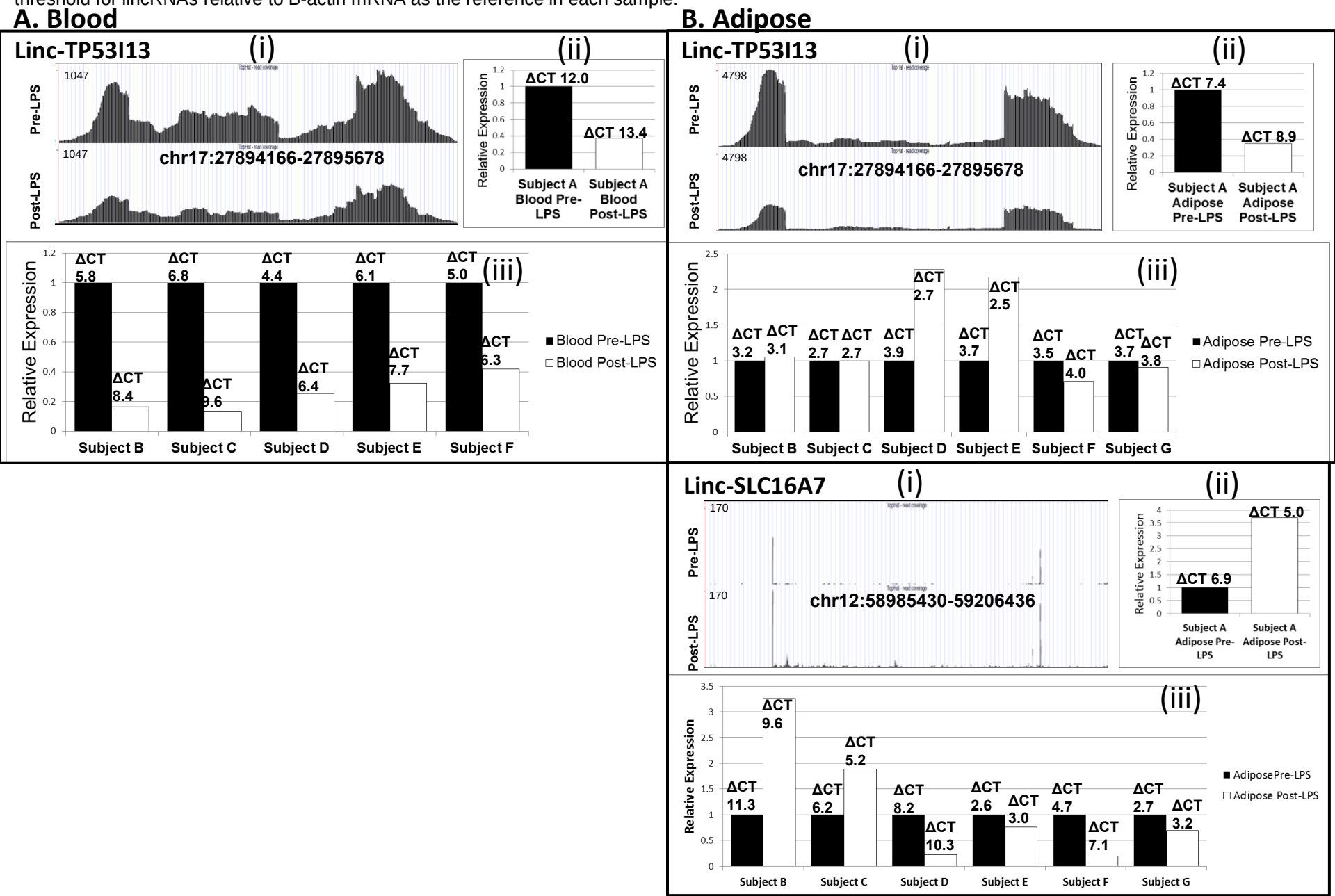
Supplementary Table VI. Primers and probes were designed using the Life Technologies Custom TaqMan Assay Design Tool.

lincRNA	TaqMan Custom Gene Expression Assay ID
linc-ARFIP1-4	AIHSOSJ
linc-CMC1-2	AIWR2U5
linc-DMRT2	AIFASF3
linc-POTED-8	AIT957B
linc-SLC16A7-3	AIMSHHF
linc-TP53I13	AIVI4DJ

Supplementary Figure I. Percentages of detected expressed lincRNAs and LPS-modulated lincRNAs for datasets with various sequencing depths. PreLPS: detection rate for expressed lincRNAs in the pre-LPS sample; post-PLS: detection rate for expressed lincRNAs in the post-LPS sample; LPS.modulated: detection rate for LPS-modulated lincRNAs.



Supplementary Figure II. Validation and replication for additional LPS modulated lincRNAs. Data for (A) blood lincRNAs, linc-TP53I13 as well as (B) adipose lincRNAs, linc-TP53I13 and linc-SLC16A7 are shown. (i) Genome browser views of RNA-seq data before and after LPS in subject A. (ii) Quantitative real-time PCR (qRT-PCR) validation of lincRNA in tissue of subject A and (iii) qRT-PCR replication of lincRNA in tissues of subject B-G (subject G blood sample failed). For (ii) and (iii) expression data are presented as bar-graphs of relative fold-change compared with pre-LPS. The delta CT's represent the median cycle threshold for lincRNAs relative to B-actin mRNA as the reference in each sample.



Supplementary Figure III. Conservation of lincRNAs compared to protein coding genes and intergenic non-lincRNA, non-protein coding sequences. Using primate phastCons scores from 46-way vertebrate genome alignment [10] (available in conservation track from UCSC genome browser http://genome.ucsc.edu/), expressed lincRNAs were markedly less conserved than protein-coding genes while, in adipose but not blood, lincRNAs were slightly more conserved than intergenic regions.