

Table S1. Microarray studies: Genes differentially expressed in PBMCs of patients with CD (n=3) and controls (n=3) under identical conditions of PBMC culture; thresholds: $p < 0.05$ (ANOVA), ≥ 2 -fold change. Positive values refer to genes upregulated and negative values to genes downregulated in patients with CD. Data sheet 1: w/o vitamin D (D), w/o LPS+PGN (LP), data sheet 2: with D, w/o LP, data sheet 3: w/o D, with LP, data sheet 4: with D, with LP.

Table S1, Part 1**Patients-D-LP vs. Controls-D-LP**

Transcript Cluster ID	Fold Change (linear)	ANOVA p-value	Gene Symbol	Description
TC0500010615.hg.1	58.95	0.033782	SEPP1	selenoprotein P, plasma, 1
TC1800009268.hg.1	10.67	0.015716	DSC2	desmocollin 2
TC0800012389.hg.1	9.56	0.009922	MSR1	macrophage scavenger receptor 1
TC0200014728.hg.1	6.68	0.027201	LY75-CD302; CD302; LY75	LY75-CD302 readthrough; CD302 molecule; lymphocyte antigen 75
TC0900012245.hg.1	6.51	0.035287	ALDH1A1	aldehyde dehydrogenase 1 family, member A1
TC0700010604.hg.1	6.18	0.040474	CPVL	carboxypeptidase, vitellogenic-like
TC1200006779.hg.1	6.04	0.019027	CLEC12A	C-type lectin domain family 12, member A
TC1200010006.hg.1	5.92	0.025926	PLBD1	phospholipase B domain containing 1
TC0200008663.hg.1	5.76	0.031003	IL1R2	interleukin 1 receptor, type II
TC1000012482.hg.1	5.5	0.009805	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
TC0600014276.hg.1	5.34	0.009618	HLA-DMB	major histocompatibility complex, class II, DM beta
TC0600006836.hg.1	5.34	0.038956	LY86	lymphocyte antigen 86
TC0100010241.hg.1	5.28	0.027293	MNDA	myeloid cell nuclear differentiation antigen
TC0X00007040.hg.1	4.96	0.037932	GPR82	G protein-coupled receptor 82
TC1200012707.hg.1	4.69	0.016683	ALDH2	aldehyde dehydrogenase 2 family (mitochondrial)
TC1200009891.hg.1	4.53	0.031873	CLEC7A	C-type lectin domain family 7, member A
TC0800009816.hg.1	4.37	0.023151	GFRA2	GDNF family receptor alpha 2
TC0100018310.hg.1	4.31	0.01125	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32)
TC0600014277.hg.1	4.19	0.012689	HLA-DMA	major histocompatibility complex, class II, DM alpha
TC1000007954.hg.1	3.97	0.012429	SLC29A3	solute carrier family 29 (equilibrative nucleoside transporter), member
TC1200010838.hg.1	3.73	0.013927	ZNF385A	zinc finger protein 385A
TC0600014318.hg.1	3.61	0.006857	FAM46A	family with sequence similarity 46, member A
TC2200007894.hg.1	3.55	0.020437	CECR1	cat eye syndrome chromosome region, candidate 1
TC1900009684.hg.1	3.53	0.017293	ACP5	acid phosphatase 5, tartrate resistant
TC0400012310.hg.1	3.49	0.008846	MARCH1	membrane associated ring finger 1
TC1200011207.hg.1	3.38	0.013104	CPM	carboxypeptidase M
TC0300008839.hg.1	3.32	0.031146	ACPP	acid phosphatase, prostate

TC1900011758.hg.1	3.25	0.032959	APOE	apolipoprotein E
TC1600011372.hg.1	3.22	0.034851	SULT1A4; SULT1A3	sulfotransferase family 1A member 4; sulfotransferase family 1A
TC1700009612.hg.1	3.19	0.043667	CLEC10A	C-type lectin domain family 10, member A
TC2200009257.hg.1	3.17	0.006367	TCN2	transcobalamin II
TC1700011442.hg.1	3.15	0.013059	PECAM1	platelet/endothelial cell adhesion molecule 1
TC1200011982.hg.1	3.14	0.025289	RASAL1	RAS protein activator like 1 (GAP1 like)
TC0600012434.hg.1	3.14	0.002681	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic
TC0900011918.hg.1	3.08	0.007119	FCN1	ficolin (collagen/fibrinogen domain containing) 1
TC1100011888.hg.1	3.06	0.007743	CTSC	cathepsin C
TC1100012471.hg.1	3.03	0.020861	AMICA1	adhesion molecule, interacts with CXADR antigen 1
TC0100015194.hg.1	2.95	0.010278	SORT1	sortilin 1
TC1200007626.hg.1	2.9	0.041299	METTL7A	methyltransferase like 7A
TC0800006927.hg.1	2.83	0.015487	LPL	lipoprotein lipase
TC1400009184.hg.1	2.83	0.031935	TXNDC16	thioredoxin domain containing 16
TC0400012769.hg.1	2.81	0.027753	BST1	bone marrow stromal cell antigen 1
TC1700012291.hg.1	2.76	0.036257	ACE	angiotensin I converting enzyme
TC0200012339.hg.1	2.75	0.01333	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
TC0100009560.hg.1	2.66	0.03627	CD101	CD101 molecule
TC0600014081.hg.1	2.65	0.007418	HFE	hemochromatosis
TC0600010991.hg.1	2.65	0.009673	MBOAT1	membrane bound O-acyltransferase domain containing 1
TC1600011373.hg.1	2.63	0.045926	SLX1A-SULT1A3	SLX1A-SULT1A3 readthrough (NMD candidate)
TC0400010785.hg.1	2.57	0.033937	IGFBP7	insulin like growth factor binding protein 7
TC1600009870.hg.1	2.55	0.013217	SULT1A1	sulfotransferase family 1A member 1
TC0400011949.hg.1	2.52	0.03685	MAML3	mastermind-like transcriptional coactivator 3
TC1100007844.hg.1	2.52	0.030996	ASRGL1	asparaginase like 1
TC1700009495.hg.1	2.51	0.010421	P2RX1	purinergic receptor P2X, ligand gated ion channel, 1
TC2100007032.hg.1	2.48	0.00374	CBR1	carbonyl reductase 1
TC0100017445.hg.1	2.44	0.014604	TLR5	toll-like receptor 5
TC1200012584.hg.1	2.43	0.038983	TAPBPL	TAP binding protein-like
TC1200006645.hg.1	2.42	0.003206	CD4	CD4 molecule
TC1600009193.hg.1	2.41	0.019944	ZSCAN32	zinc finger and SCAN domain containing 32
TC1000007913.hg.1	2.4	0.001053	H2AFY2	H2A histone family, member Y2
TC0500006816.hg.1	2.4	0.048705	FAM105A	family with sequence similarity 105, member A

TC1200006643.hg.1	2.34	0.00014	PTMS	parathymosin
TC1700012186.hg.1	2.34	0.008503	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13
TC1100011794.hg.1	2.33	0.009779	PRCP	prolylcarboxypeptidase
TC1600007931.hg.1	2.33	0.041978	LPCAT2	lysophosphatidylcholine acyltransferase 2
TC1700008372.hg.1	2.32	0.00455	SCPEP1	serine carboxypeptidase 1
TC0600013165.hg.1	2.31	0.008878	EPB41L2	erythrocyte membrane protein band 4.1-like 2
TC0600007677.hg.1	2.29	0.046057	HLA-DPB1	major histocompatibility complex, class II, DP beta 1
TC1200008165.hg.1	2.29	0.008905	KCNMB4	potassium channel subfamily M regulatory beta subunit 4
TC2200008856.hg.1	2.27	0.012045	NAGA	N-acetylgalactosaminidase, alpha-
TC1900011004.hg.1	2.25	0.028658	SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5
TC1600007528.hg.1	2.18	0.005445	ITGAM	integrin, alpha M (complement component 3 receptor 3 subunit)
TC0600007664.hg.1	2.18	0.042037	HLA-DQA2	major histocompatibility complex, class II, DQ alpha 2
TC0200016006.hg.1	2.17	0.014531	HTR2B	5-hydroxytryptamine (serotonin) receptor 2B, G protein-coupled
TC0400009818.hg.1	2.17	0.032792	LRPAP1	LDL receptor related protein associated protein 1
TC0500013271.hg.1	2.16	0.024892	LOC728554; THOC3	THO complex 3 pseudogene; Homo sapiens THO complex 3, mRNA
TC0300011834.hg.1	2.15	0.03254	FILIP1L	filamin A interacting protein 1-like
TC0X00011238.hg.1	2.15	0.010134	CLIC2	chloride intracellular channel 2
TC1200007120.hg.1	2.1	0.011319	RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
TC1200012617.hg.1	2.09	0.022404	FGD4	FYVE, RhoGEF and PH domain containing 4
TC1900008566.hg.1	2.08	0.003627	SIGLEC16	sialic acid binding Ig-like lectin 16 (gene/pseudogene)
TC0X00008108.hg.1	2.07	0.04739	TMEM164	transmembrane protein 164
TC1900011866.hg.1	2.05	0.035293	RAB3D	RAB3D, member RAS oncogene family
TC1000006937.hg.1	2.04	0.039444	PLXDC2	plexin domain containing 2
TC0X00007504.hg.1	2.03	0.027054	STARD8	StAR-related lipid transfer domain containing 8
TC0900007475.hg.1	2.02	0.026883	CBWD3	COBW domain containing 3
TC1000007272.hg.1	-2.01	0.029859	CREM	cAMP responsive element modulator
TC0600008991.hg.1	-2.03	0.026618	QRSL1	Transcript Identified by AceView, Entrez Gene ID(s) 55278
TC0300009944.hg.1	-2.04	0.03981	FAM43A	family with sequence similarity 43, member A
TC0300013933.hg.1	-2.04	0.00136	THUMPD3-AS1	THUMPD3 antisense RNA 1
TC1100013172.hg.1	-2.04	0.006229	INTS5	integrator complex subunit 5
TC0200008516.hg.1	-2.06	0.009392	CNNM3	Zhang2013 ALT_ACCEPTOR, ALT_DONOR, coding, INTERNAL, intronic,
TC0100011382.hg.1	-2.07	0.038365	DYRK3	dual specificity tyrosine-(Y)-phosphorylation regulated kinase 3
TC1700008095.hg.1	-2.08	0.030157	LRR37A	leucine rich repeat containing 37A

TC0300012048.hg.1	-2.08	0.007952	ZBTB20; MIR568	zinc finger and BTB domain containing 20; microRNA 568
TC0900008425.hg.1	-2.1	0.00047	ZNF483	zinc finger protein 483
TC0800006980.hg.1	-2.11	0.016133	SLC39A14	solute carrier family 39 (zinc transporter), member 14
TC1100012019.hg.1	-2.12	0.006972	SESN3	sestrin 3
TC1900011926.hg.1	-2.13	0.039976	ZNF91	zinc finger protein 91
TC0500009423.hg.1	-2.14	0.013152	NPM1	Zhang2013 ALT_ACCEPTOR, ALT_DONOR, coding, INTERNAL, intronic
TSUnmapped00000299.hg.1	-2.15	0.032199	TRAPPC4	trafficking protein particle complex 4
TC0100016049.hg.1	-2.17	0.039887	FCRL3	Fc receptor-like 3
TC1000009090.hg.1	-2.18	0.004131	BAG3	BCL2-associated athanogene 3
TC0300014090.hg.1	-2.19	0.000048	ATP13A3	ATPase type 13A3
TC1000007990.hg.1	-2.26	0.001075	DDIT4	DNA damage inducible transcript 4
TC1100007394.hg.1	-2.31	0.00072	CD82	CD82 molecule
TC0200010980.hg.1	-2.33	0.044238	CCL20	chemokine (C-C motif) ligand 20
TC0200015332.hg.1	-2.33	0.028342	PGAP1	post-GPI attachment to proteins 1
TC1100010054.hg.1	-2.37	0.000908	NRIP3	nuclear receptor interacting protein 3
TC2000008516.hg.1	-2.38	0.025407	SNX5	Zhang2013 ALT_ACCEPTOR, ALT_DONOR, coding, INTERNAL, intronic
TC0600012554.hg.1	-2.44	0.016162	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2
TC0200008904.hg.1	-2.45	0.036122	FBLN7	fibulin 7
TC1700011558.hg.1	-2.46	0.006113	SLC16A6	solute carrier family 16, member 6
TC0100011012.hg.1	-2.5	0.010889	RGS1	regulator of G-protein signaling 1
TC1100011184.hg.1	-2.69	0.041887	SF1	Memczak2013 ALT_ACCEPTOR, ALT_DONOR, coding, INTERNAL,
TC0900012209.hg.1	-2.85	0.023687	TTC39B	tetratricopeptide repeat domain 39B
TC0800009331.hg.1	-2.95	0.028652	ERICH1	glutamate rich 1
TC0600011173.hg.1	-3.17	0.009715	GUSBP2	glucuronidase, beta pseudogene 2
TC0900010388.hg.1	-3.23	0.035717	TMEM2	Transcript Identified by AceView, Entrez Gene ID(s) 23670
TC0400012949.hg.1	-3.39	0.017052	SLC39A8	solute carrier family 39 (zinc transporter), member 8
TC1500008038.hg.1	-4.21	0.00492	ARNT2; MIR5572	aryl-hydrocarbon receptor nuclear translocator 2; microRNA 5572
TC1800009242.hg.1	-6.9	0.002854	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2
TC0100006931.hg.1	-6.9	0.034945	PDPN	podoplanin
TC0700008582.hg.1	-7.47	0.003959	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator
TC0400011014.hg.1	-38.89	0.031194	CXCL5	chemokine (C-X-C motif) ligand 5

Table S1, Part 2**Patients+D-LP vs. Controls+D-LP**

Transcript Cluster ID	Fold Change (linear)	ANOVA p-value	Gene Symbol	Description
TC0X00006453.hg.1	20.69	0.026874	IL3RA	interleukin 3 receptor, alpha (low affinity)
TC0Y00006452.hg.1	17.91	0.030348	IL3RA	Homo sapiens interleukin 3 receptor, alpha (low affinity) (IL3RA), transcript
TC0800012389.hg.1	13.19	0.006799	MSR1	macrophage scavenger receptor 1
TC1800009268.hg.1	6.95	0.027562	DSC2	desmocollin 2
TC0200008663.hg.1	4.65	0.000043	IL1R2	interleukin 1 receptor, type II
TC1200006779.hg.1	4.52	0.011668	CLEC12A	C-type lectin domain family 12, member A
TC1500007510.hg.1	3.41	0.002941	TPM1	tropomyosin 1 (alpha)
TC0200009060.hg.1	2.94	0.001159	STEAP3	STEAP family member 3, metalloredutase
TC0700012849.hg.1	2.82	0.035745	CLEC5A	C-type lectin domain family 5, member A
TC0900012167.hg.1	2.76	0.017345	GSN	gelsolin
	2.6	0.01844		Memczak2013 ANTISENSE, coding, INTERNAL, intronic best transcript
TC0400008284.hg.1			UBE2D3	NM_181893
TC0700010463.hg.1	2.44	0.009374	IGF2BP3	insulin-like growth factor 2 mRNA binding protein 3
TC0600012434.hg.1	2.43	0.029017	ME1	malic enzyme 1, NADP(+)-dependent, cytosolic
TC1200010006.hg.1	2.3	0.00769	PLBD1	phospholipase B domain containing 1
TC1500009173.hg.1	2.27	0.014293	EHD4	EH domain containing 4
TC1100013109.hg.1	2.27	0.021529	GRAMD1B	GRAM domain containing 1B
TC0100010543.hg.1	2.23	0.043237	ATP1B1	ATPase, Na+/K+ transporting, beta 1 polypeptide
TC1700011704.hg.1	2.16	0.030949	CD300E	CD300e molecule
TC0400009090.hg.1	2.15	0.014137	TDO2	tryptophan 2,3-dioxygenase
TC0800009244.hg.1	2.11	0.020825	MROH1	maestro heat-like repeat family member 1
TC0X00008027.hg.1	2.11	0.043972	ZCCHC18	zinc finger, CCHC domain containing 18
TC1000011445.hg.1	2.1	0.022366	MYOF	myoferlin
TC1500006726.hg.1	2.09	0.003629	ULK4P1; ULK4P2	ULK4 pseudogene 1; ULK4 pseudogene 2
TC0200007261.hg.1	2.03	0.02046	QPCT	glutaminy-peptide cyclotransferase
TC1100006598.hg.1	-2.02	0.038937	SLC22A18	solute carrier family 22, member 18
TC0900008010.hg.1	-2.1	0.041908	PTPDC1	protein tyrosine phosphatase domain containing 1

TC1900007511.hg.1	-2.1	0.005574	ZNF714; VN1R81P	zinc finger protein 714; vomeronasal 1 receptor 81 pseudogene
TC0300009282.hg.1	-2.19	0.00753	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase
TC0300009459.hg.1	-2.52	0.017029	GPR160	G protein-coupled receptor 160
TC0900012209.hg.1	-2.61	0.030535	TTC39B	tetratricopeptide repeat domain 39B
TC0400007225.hg.1	-2.63	0.03409	DTHD1	death domain containing 1
TC1500006925.hg.1	-2.65	0.045522	THBS1	thrombospondin 1
TC0600011173.hg.1	-2.78	0.015437	GUSBP2	glucuronidase, beta pseudogene 2
TC0500012392.hg.1	-3.13	0.02602	SPINK1	serine peptidase inhibitor, Kazal type 1
TC1200010768.hg.1	-3.65	0.03112	KRT1	keratin 1, type II
TC0800009331.hg.1	-4.86	0.025251	ERICH1	glutamate rich 1
TC1800009242.hg.1	-8.81	0.024843	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2

Table S1, Part 3**Patients-D+LP vs. Controls-D+LP**

Transcript Cluster ID	Fold Change (linear)	ANOVA p-value	Gene Symbol	Description
TC0200008663.hg.1	5.79	0.013421	IL1R2	interleukin 1 receptor, type II
TC2100008392.hg.1	5.61	0.03196	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
TC0700011584.hg.1	5.48	0.003496	FGL2	fibrinogen-like 2
TC1000011368.hg.1	5.29	0.020655	ANKRD22	ankyrin repeat domain 22
TC0900011918.hg.1	4.93	0.00671	FCN1	ficolin (collagen/fibrinogen domain containing) 1
TC1100007262.hg.1	4.09	0.036197	EHF	ets homologous factor
TC0600014277.hg.1	3.97	0.003336	HLA-DMA	major histocompatibility complex, class II, DM alpha
TC1700011566.hg.1	3.79	0.046858	FAM20A	family with sequence similarity 20, member A
TC0700007352.hg.1	3.67	0.039599	BLVRA	biliverdin reductase A
TC1100007684.hg.1	3.54	0.026846	SERPING1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1
TC1200008133.hg.1	3.51	0.007878	LYZ	lysozyme
TC0400008861.hg.1	3.43	0.008174	IL15	interleukin 15
TC0X00009492.hg.1	3.22	0.023919	NDP	Norrie disease (pseudoglioma)
TC0900012167.hg.1	3.08	0.038377	GSN	gelsolin
TC0300014002.hg.1	3.05	0.018256	HESX1	HESX homeobox 1
TC0100007292.hg.1	2.98	0.029644	C1QB	complement component 1, q subcomponent, B chain
TC1000010914.hg.1	2.98	0.03867	PPA1	pyrophosphatase (inorganic) 1
TC1900006494.hg.1	2.89	0.045766	CFD	complement factor D (adipsin)
TC0X00007053.hg.1	2.72	0.039796	MAOA	monoamine oxidase A
TC2200009362.hg.1	2.68	0.040015	TYMP; SCO2	thymidine phosphorylase; SCO2 cytochrome c oxidase assembly protein
TC0400009048.hg.1	2.58	0.033002	TLR2	toll-like receptor 2
TC1200006645.hg.1	2.58	0.001486	CD4	CD4 molecule
TC0X00006958.hg.1	2.58	0.040981	CYBB	cytochrome b-245, beta polypeptide
TC0500007154.hg.1	2.57	0.041232	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3
TC1400010629.hg.1	2.54	0.036195	FLVCR2	feline leukemia virus subgroup C cellular receptor family, member 2
TC1900008880.hg.1	2.53	0.017644	KIR2DL4	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4
TC0800007042.hg.1	2.5	0.04198	ADAMDEC1	ADAM-like, decysin 1

TC2000009218.hg.1	2.39	0.001764	SDC4	syndecan 4
TC1700008263.hg.1	2.38	0.048676	ABCC3	ATP binding cassette subfamily C member 3
TC1200007626.hg.1	2.33	0.041908	METTL7A	methyltransferase like 7A
TC0700010989.hg.1	2.33	0.006677	TNS3	tensin 3
TC1400006540.hg.1	2.33	0.015311	RNASE2	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin)
TC0200016767.hg.1	2.32	0.010385	MREG	melanoregulin
TC0800008279.hg.1	2.31	0.03512	PLEKHF2	pleckstrin homology domain containing, family F (with FYVE domain) member
TC1100011888.hg.1	2.29	0.001672	CTSC	cathepsin C
TC1900011929.hg.1	2.25	0.006948	IGFLR1	IGF like family receptor 1
TC0800006927.hg.1	2.25	0.031488	LPL	lipoprotein lipase
TC0200012339.hg.1	2.24	0.027692	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1
TC0X00011238.hg.1	2.24	0.024559	CLIC2	chloride intracellular channel 2
TC0300007257.hg.1	2.19	0.023421	CCR5	chemokine (C-C motif) receptor 5 (gene/pseudogene)
TC0800010783.hg.1	2.19	0.028635	MSC	musculin
TC2100007508.hg.1	2.18	0.03757	KCNE1	potassium channel, voltage gated subfamily E regulatory beta subunit 1
TC0900008716.hg.1	2.17	0.015306	NEK6	NIMA-related kinase 6
TSUnmapped00000149.hg.1	2.15	0.033794	ZNF35	zinc finger protein 35
TC0600011517.hg.1	2.14	0.025607	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1
TC0600008120.hg.1	2.14	0.030788	TMEM63B	transmembrane protein 63B
TC0100010939.hg.1	2.11	0.038569	PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent)
TC0700013581.hg.1	2.1	0.004862	STEAP4	STEAP family member 4
TC2000009970.hg.1	2.08	0.039744	SIRPB1	signal-regulatory protein beta 1
TC0X00009250.hg.1	2.07	0.034443	ACOT9	acyl-CoA thioesterase 9
TC0300008506.hg.1	2.04	0.037626	LRRC58	Memczak2013 ANTISENSE, CDS, coding, INTERNAL, intronic, UTR3 best
TC1000006816.hg.1	2.02	0.048059	OPTN	optineurin
TC0400012921.hg.1	2.01	0.011174	TLR1	toll-like receptor 1
TC0700010167.hg.1	2.01	0.029091	ACTB	actin, beta
TC0700013394.hg.1	-2.05	0.009196	CCDC146	coiled-coil domain containing 146
TC0800008028.hg.1	-2.18	0.041599	PKIA	protein kinase (cAMP-dependent, catalytic) inhibitor alpha
TC0100018445.hg.1	-2.21	0.02917	DAB1	Dab, reelin signal transducer, homolog 1 (Drosophila)
TC0200009616.hg.1	-2.24	0.008317	KIF5C	kinesin family member 5C
TC0400008604.hg.1	-2.41	0.000057	EXOSC9	exosome component 9
TC0800006980.hg.1	-2.48	0.003793	SLC39A14	solute carrier family 39 (zinc transporter), member 14

TC0400012814.hg.1	-2.53	0.002908	CXCL6	chemokine (C-X-C motif) ligand 6
TC0300012816.hg.1	-2.56	0.010148	P2RY12	purinergic receptor P2Y, G-protein coupled, 12
TC0800009331.hg.1	-2.59	0.036949	ERICH1	glutamate rich 1
TC0100018443.hg.1	-2.8	0.038586	PLPP3	phospholipid phosphatase 3
TC0500012631.hg.1	-3	0.02568	EBF1	early B-cell factor 1
TC0100009621.hg.1	-3.08	0.041109	PHGDH	phosphoglycerate dehydrogenase
TC0100011391.hg.1	-3.49	0.002615	IL24	interleukin 24
TC0200010980.hg.1	-5.08	0.004256	CCL20	chemokine (C-C motif) ligand 20
TC0400011014.hg.1	-5.32	0.005833	CXCL5	chemokine (C-X-C motif) ligand 5

Table S1, Part 4**Patients+D+LP vs. Controls+D+LP**

Transcript Cluster ID	Fold Change (linear)	ANOVA p-value	Gene Symbol	Description
TC0800012389.hg.1	14.72	0.000592	MSR1	macrophage scavenger receptor 1
TC0200008663.hg.1	9.65	0.024507	IL1R2	interleukin 1 receptor, type II
TC0900010866.hg.1	5.31	0.021727	FBP1	fructose-1,6-bisphosphatase 1
TC1900011770.hg.1	3.96	0.01646	C5AR1	complement component 5a receptor 1
TC1200009891.hg.1	3.94	0.008056	CLEC7A	C-type lectin domain family 7, member A
TC1200009892.hg.1	3.19	0.031058	OLR1	oxidized low density lipoprotein (lectin-like) receptor 1
TC0700012849.hg.1	3.11	0.000682	CLEC5A	C-type lectin domain family 5, member A
TC0X00009492.hg.1	2.88	0.02867	NDP	Norrie disease (pseudoglioma)
TC0200016767.hg.1	2.69	0.025139	MREG	melanoregulin
TC1600008661.hg.1	2.59	0.035185	CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2
TC1200008667.hg.1	2.45	0.02618	HSP90B1	Transcript Identified by AceView, Entrez Gene ID(s) 7184
TC1100011888.hg.1	2.41	0.000066	CTSC	cathepsin C
TC0300009916.hg.1	2.4	0.048664	HES1	hes family bHLH transcription factor 1
TC0300009224.hg.1	2.32	0.020755	P2RY1	purinergic receptor P2Y, G-protein coupled, 1
TC2000008473.hg.1	2.29	0.04729	KIF16B	kinesin family member 16B
TC0100014313.hg.1	2.28	0.020126	PPAP2B	Transcript Identified by AceView, Entrez Gene ID(s) 8613
TC0900008219.hg.1	2.27	0.031119	NR4A3	nuclear receptor subfamily 4, group A, member 3
TC1300007845.hg.1	2.27	0.04717	CLYBL	citrate lyase beta like
TC1200007147.hg.1	2.22	0.047658	ARNTL2	aryl hydrocarbon receptor nuclear translocator-like 2
TC0700009478.hg.1	2.22	0.045508	C7orf34	chromosome 7 open reading frame 34
TC1700007890.hg.1	2.17	0.034165	ATP6V0A1; MIR5010	ATPase, H ⁺ transporting, lysosomal V0 subunit a1; microRNA 5010
TC0100007556.hg.1	2.14	0.036139	PHACTR4	phosphatase and actin regulator 4
TC0100007292.hg.1	2.1	0.044904	C1QB	complement component 1, q subcomponent, B chain
TC1900008879.hg.1	2.1	0.01709	KIR2DS5; KIR3DL2;	killer cell immunoglobulin-like receptor, two domains, short
TC0200007261.hg.1	2.07	0.024503	QPCT	glutaminy-peptide cyclotransferase
TC0200016354.hg.1	2.06	0.006574	HDLBP	Transcript Identified by AceView, Entrez Gene ID(s) 3069
TC1200008133.hg.1	2.03	0.020446	LYZ	lysozyme

TC1100009098.hg.1	2.03	0.041447	HTR3A	5-hydroxytryptamine (serotonin) receptor 3A, ionotropic
TC1200012814.hg.1	2.01	0.01411	CYP27B1	cytochrome P450, family 27, subfamily B, polypeptide 1
TC0200013602.hg.1	-2.02	0.020168	TSGA10	testis specific 10
TC1900008993.hg.1	-2.02	0.042857	ZNF304	zinc finger protein 304
TC0X00009606.hg.1	-2.04	0.005772	SSX3	synovial sarcoma, X breakpoint 3
TC0100015803.hg.1	-2.08	0.001284	TDRKH	tudor and KH domain containing
TC1200011720.hg.1	-2.21	0.021598	NUP37	nucleoporin 37kDa
TC0800006980.hg.1	-3.48	0.014677	SLC39A14	solute carrier family 39 (zinc transporter), member 14
TC0100011391.hg.1	-4.82	0.028063	IL24	interleukin 24
TC0100009621.hg.1	-5.29	0.027302	PHGDH	phosphoglycerate dehydrogenase

Table S2: PBMC samples used in real-time PCR analysis (per individual). Indicated are the times of vitamin (vit) D3 treatment and stimulation with LPS and PGN (see also Fig. 1).

No.	Vit D (h)	LPS (h)	PGN (h)
1	-	-	-
2	-	6	-
3	-	-	6
4	-	6	6
5	26	-	-
6	26	6	-
7	26	-	6
8	26	6	6