

Supplemental Table 1: Top 100 differentially expressed genes based on p value and direct comparison of gene expression across the four developmental age groups.

ID	P value	Common Name	Genbank	Description
41469_at	1.23E-14	PI3	L10343	peptidase inhibitor 3, skin-derived (SKALP)
227250_at	1.72E-14	KREMEN1	BF221745	kringle containing transmembrane protein 1
219295_s_at	2.29E-13	PCOLCE2	NM_013363	procollagen C-endopeptidase enhancer 2
222073_at	2.14E-11	COL4A3	AI694562	collagen, type IV, alpha 3
210483_at	3.25E-11	TNFRSF10C	BC005043	tumor necrosis factor receptor superfamily, member 10c
238058_at	4.15E-11	FLJ27365	AA603041	FLJ27365 protein /// hypothetical protein LOC150381
1554997_a_at	4.33E-11	PTGS2	AY151286	prostaglandin-endoperoxide synthase 2
225669_at	6.56E-11	IFNAR1	AA133989	interferon (alpha, beta and omega) receptor 1
242230_at	1.17E-10	ATXN1	BF438383	ataxin 1
228490_at	3.64E-10	ABHD2	AW292816	abhydrolase domain containing 2
227150_at	3.64E-10	MTF1	N46867	metal-regulatory transcription factor 1
206546_at	6.56E-10	SYCP2	NM_014258	synaptonemal complex protein 2
234299_s_at	6.68E-10	NIN	AK027054	ninein (GSK3B interacting protein)
217078_s_at	2.29E-09	CD300A	AJ010102	CD300a molecule
202912_at	2.90E-09	ADM	NM_001124	Adrenomedullin
213173_at	3.58E-09	PCNX	AI815033	pecanex homolog (Drosophila)
203042_at	5.27E-09	LAMP2	NM_002294	lysosomal-associated membrane protein 2
206765_at	5.84E-09	KCNJ2	AF153820	potassium inwardly-rectifying channel, subfamily J, member 2
208690_s_at	6.16E-09	PDLIM1	BC000915	PDZ and LIM domain 1
222662_at	6.29E-09	PPP1R3B	W60806	protein phosphatase 1, regulatory (inhibitor) subunit 3B
244313_at	7.05E-09	CR1	AI052659	complement component (3b/4b) receptor 1
39402_at	7.05E-09	IL1B	M15330	interleukin 1, beta
1565544_at	7.05E-09	RNF141	AI758773	ring finger protein 141
64883_at	7.28E-09	MOSPD2	AI744083	motile sperm domain containing 2
202530_at	7.52E-09	MAPK14	NM_001315	mitogen-activated protein kinase 14
222447_at	8.03E-09	METTL9	BC000195	methyltransferase like 9
227654_at	1.43E-08	FAM65C	AI056877	family with sequence similarity 65, member C
228188_at	1.45E-08	FOSL2	AI860150	FOS-like antigen 2
225941_at	1.61E-08	EIF4E3	AI935522	eukaryotic translation initiation factor 4E family member 3
222693_at	1.61E-08	FNDC3B	BF444916	fibronectin type III domain containing 3B
200984_s_at	1.63E-08	CD59	X16447	CD59 molecule, complement regulatory protein
202625_at	2.05E-08	LYN	AI356412	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
244578_at	2.32E-08	LCP2	AA992040	lymphocyte cytosolic protein 2
231029_at	2.91E-08	F5	AI740541	coagulation factor V (proaccelerin, labile factor)
1556228_a_at	2.97E-08	VCPIP1	AF088033	valosin containing protein (p97)
239598_s_at	3.06E-08	LPCAT2	AA789296	lysophosphatidylcholine acyltransferase 2
221497_x_at	3.13E-08	EGLN1	BC005369	egl nine homolog 1 (C. elegans)
204493_at	3.16E-08	BID	NM_001196	BH3 interacting domain death agonist

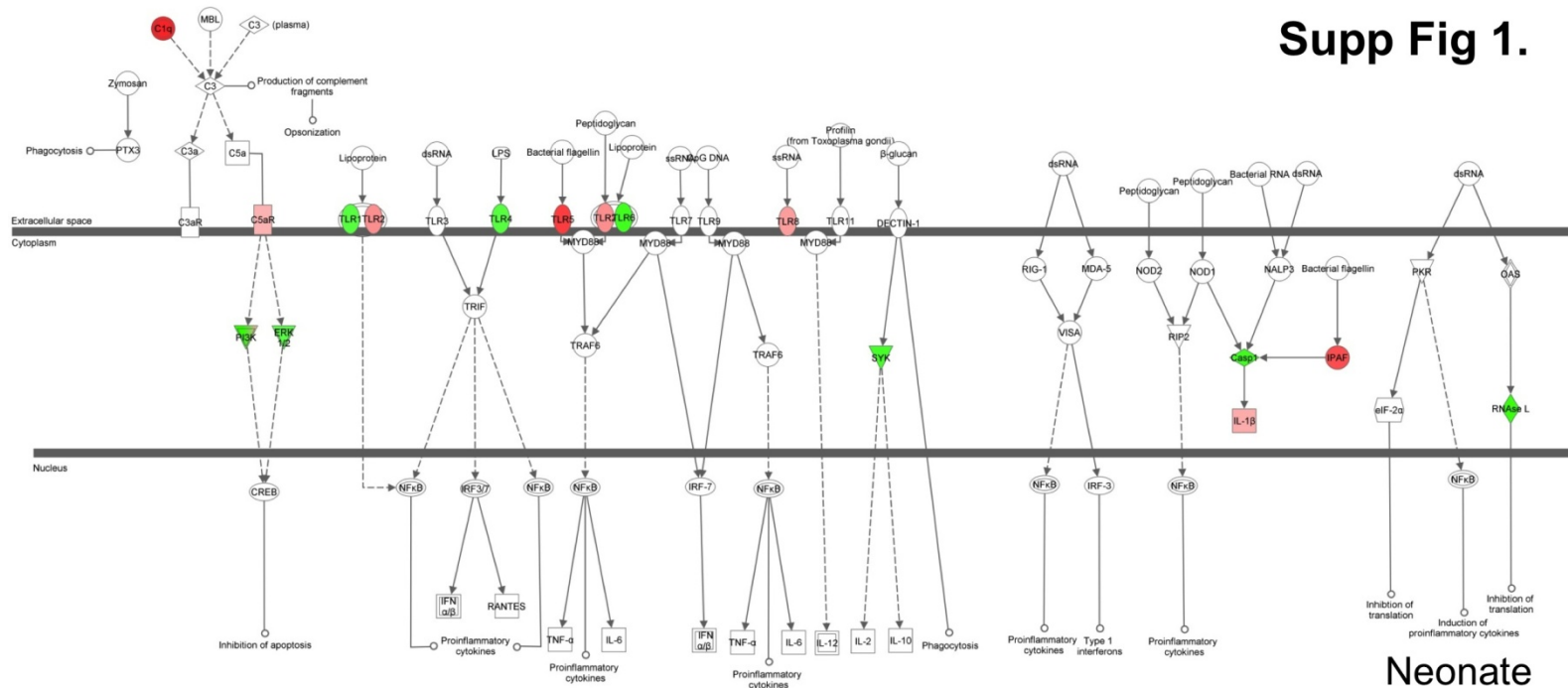
200704_at	4.03E-08	LITAF	AB034747	lipopolysaccharide-induced TNF factor
210582_s_at	4.45E-08	LIMK2	AL117466	LIM domain kinase 2
207500_at	5.26E-08	CASP5	NM_004347	caspase 5, apoptosis-related cysteine peptidase
203820_s_at	5.37E-08	IGF2BP3	NM_006547	insulin-like growth factor 2 mRNA binding protein 3
202181_at	5.60E-08	KIAA0247	NM_014734	KIAA0247
218310_at	5.70E-08	RABGEF1	NM_014504	RAB guanine nucleotide exchange factor (GEF) 1
212602_at	5.70E-08	WDFY3	AI806395	WD repeat and FYVE domain containing 3
230999_at	6.02E-08	FLJ39051	AI743903	Hypothetical gene supported by AK096370
201631_s_at	6.02E-08	IER3	NM_003897	immediate early response 3
238725_at	6.02E-08	IRF1	AW392551	interferon regulatory factor 1
204307_at	6.02E-08	KIAA0329	AB002295	KIAA0329
241620_at	6.02E-08	SMCHD1	AA873021	structural maintenance of chromosomes flexible hinge domain containing 1
216841_s_at	6.02E-08	SOD2	X15132	superoxide dismutase 2, mitochondrial
1570135_at	6.02E-08	ZNF230	BC030810	Zinc finger protein 230
202200_s_at	6.40E-08	SRPK1	NM_003137	SFRS protein kinase 1
203397_s_at	6.50E-08	GALNT3	BF063271	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3)
204554_at	6.60E-08	PPP1R3D	AL109928	protein phosphatase 1, regulatory (inhibitor) subunit 3D
230364_at	6.68E-08	CHPT1	BF940025	choline phosphotransferase 1
212335_at	7.27E-08	GNS	AW167793	glucosamine (N-acetyl)-6-sulfatase
207446_at	7.81E-08	TLR6	NM_006068	toll-like receptor 6
207907_at	8.24E-08	TNFSF14	NM_003807	tumor necrosis factor (ligand) superfamily, member 14
209448_at	8.88E-08	HTATIP2	BC002439	HIV-1 Tat interactive protein 2, 30kDa
217738_at	9.77E-08	NAMPT	BF575514	nicotinamide phosphoribosyltransferase
211306_s_at	1.13E-07	FCAR	U56237	Fc fragment of IgA, receptor for
203574_at	1.13E-07	NFIL3	NM_005384	nuclear factor, interleukin 3 regulated
216316_x_at	1.21E-07	GK3P /// GK	X78713	glycerol kinase /// glycerol kinase 3 pseudogene
222642_s_at	1.24E-07	TMEM33	BC000948	transmembrane protein 33
1557418_at	1.26E-07	ACSL4	W95007	Acyl-CoA synthetase long-chain family member 4
209840_s_at	1.26E-07	LRRN3	AI221950	leucine rich repeat neuronal 3
336_at	1.34E-07	TBXA2R	D38081	thromboxane A2 receptor
202897_at	1.35E-07	SIRPA	AB023430	signal-regulatory protein alpha
229699_at	1.37E-07	LOC100129550	AW237752	hypothetical protein LOC100129550
1554730_at	1.40E-07	MCTP1	BC030005	multiple C2 domains, transmembrane 1
210119_at	1.51E-07	KCNJ15	U73191	potassium inwardly-rectifying channel, subfamily J, member 15
225878_at	1.55E-07	KIF1B	AL135264	kinesin family member 1B
220603_s_at	1.72E-07	MCTP2	NM_018349	multiple C2 domains, transmembrane 2
229285_at	1.89E-07	RNASEL	AI669749	ribonuclease L (2',5'-oligoadenylate synthetase-dependent)
209238_at	1.92E-07	STX3	BE966922	syntaxin 3
225183_at	2.08E-07	C16orf72	BG495327	chromosome 16 open reading frame 72
210176_at	2.14E-07	TLR1	AL050262	toll-like receptor 1

223451_s_at	2.24E-07	CKLF	AF096895	chemokine-like factor
1553920_at	2.25E-07	C9orf84	NM_173521	chromosome 9 open reading frame 84
224917_at	2.25E-07	MIR21	BF674052	microRNA 21
224148_at	2.43E-07	FYB	AF116653	FYN binding protein (FYB-120/130)
1554638_at	2.44E-07	ZFYVE16	BC032227	zinc finger, FYVE domain containing 16
213341_at	2.48E-07	FEM1C	AI862658	fem-1 homolog c (C. elegans)
212864_at	2.53E-07	CDS2	Y16521	CDP-diacylglycerol synthase
203373_at	2.53E-07	SOCS2	NM_003877	suppressor of cytokine signaling 2
229743_at	2.53E-07	ZNF438	AI886666	zinc finger protein 438
231886_at	2.70E-07	DKFZP434B2016	AL137655	similar to hypothetical protein LOC284701
206026_s_at	3.06E-07	TNFAIP6	NM_007115	tumor necrosis factor, alpha-induced protein 6
228846_at	3.12E-07	MXD1	AW071793	MAX dimerization protein 1
217986_s_at	3.77E-07	BAZ1A	NM_013448	bromodomain adjacent to zinc finger domain, 1A
210756_s_at	4.14E-07	NOTCH2	AF308601	Notch homolog 2 (Drosophila)
219033_at	4.46E-07	PARP8	NM_024615	poly (ADP-ribose) polymerase family, member 8
208499_s_at	4.85E-07	DNAJC3	NM_006260	DnaJ (Hsp40) homolog, subfamily C, member 3
230972_at	4.94E-07	ANKRD9	AW194999	ankyrin repeat domain 9
203044_at	5.09E-07	CHSY1	NM_014918	chondroitin sulfate synthase 1
236013_at	5.47E-07	CACNA1E	AW452628	calcium channel, voltage-dependent, R type, alpha 1E subunit
217967_s_at	6.02E-07	FAM129A	AF288391	family with sequence similarity 129, member A

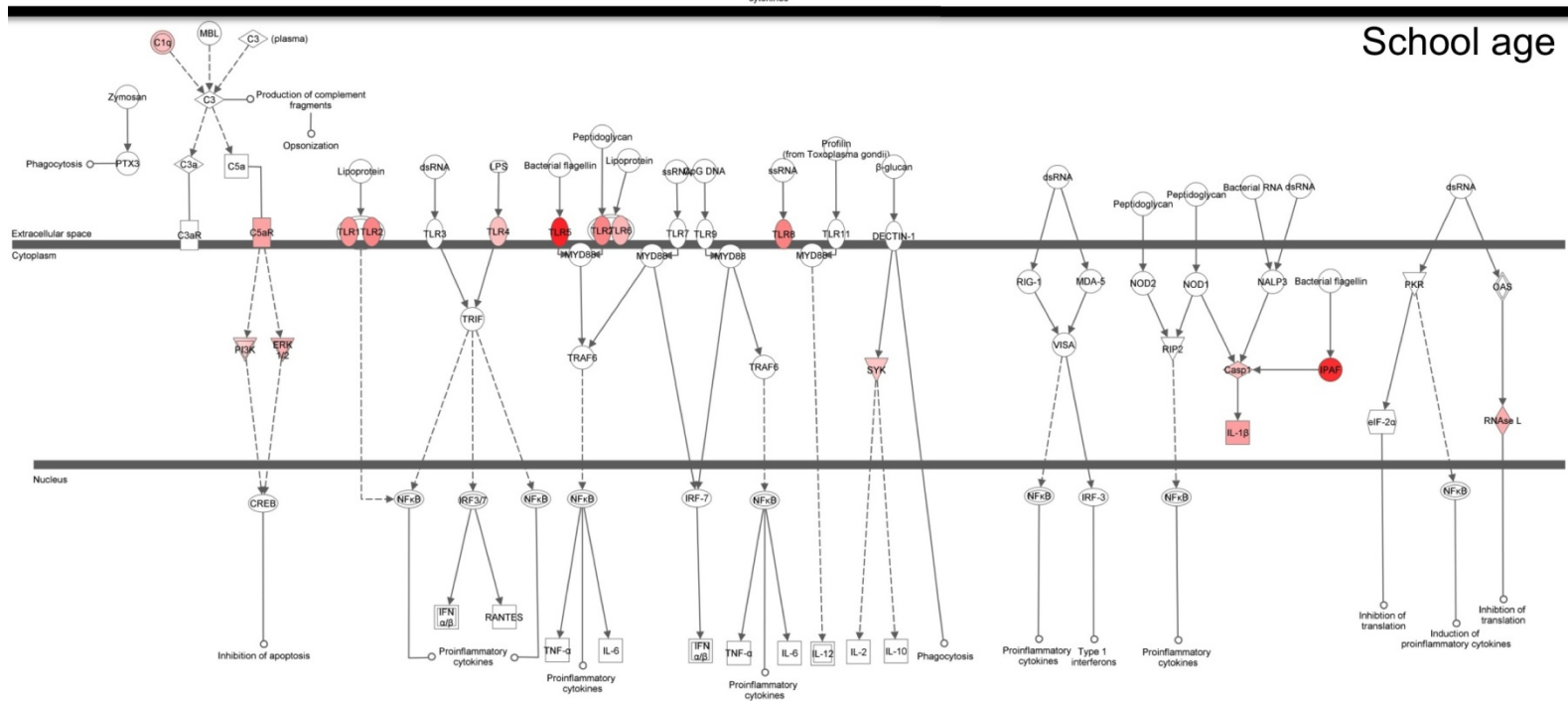
Supplemental Table 2: Eleven gene probes differentially regulated between patients with gram positive infection and patients with gram negative infection.

Affymetrix ID	Gene Symbol	Genbank	Description
213348_at	CDKN1C	N33167	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
206676_at	CEACAM8	M33326	carcinoembryonic antigen-related cell adhesion molecule 8
218542_at	CEP55	NM_018131	centrosomal protein 55kDa
205220_at	GPR109B	NM_006018	G protein-coupled receptor 109B
218963_s_at	KRT23	NM_015515	keratin 23 (histone deacetylase inducible)
231688_at	MMP8	AW337833	matrix metalloproteinase 8 (neutrophil collagenase)
207329_at	MMP8	NM_002424	matrix metalloproteinase 8 (neutrophil collagenase)
41469_at	PI3	L10343	peptidase inhibitor 3, skin-derived (SKALP)
203691_at	PI3	NM_002638	peptidase inhibitor 3, skin-derived (SKALP)
201110_s_at	THBS1	NM_003246	thrombospondin 1
234632_x_at		AK026267	

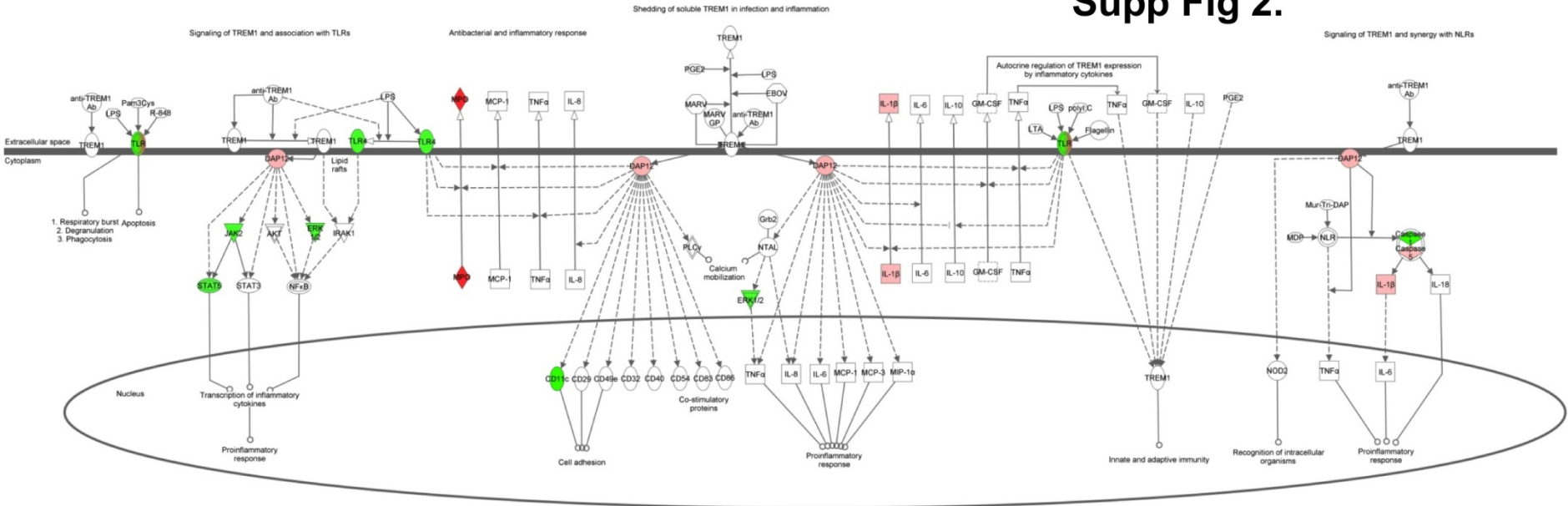
Supp Fig 1.



Neonate
School age



Supp Fig 2.



Neonate

School age

