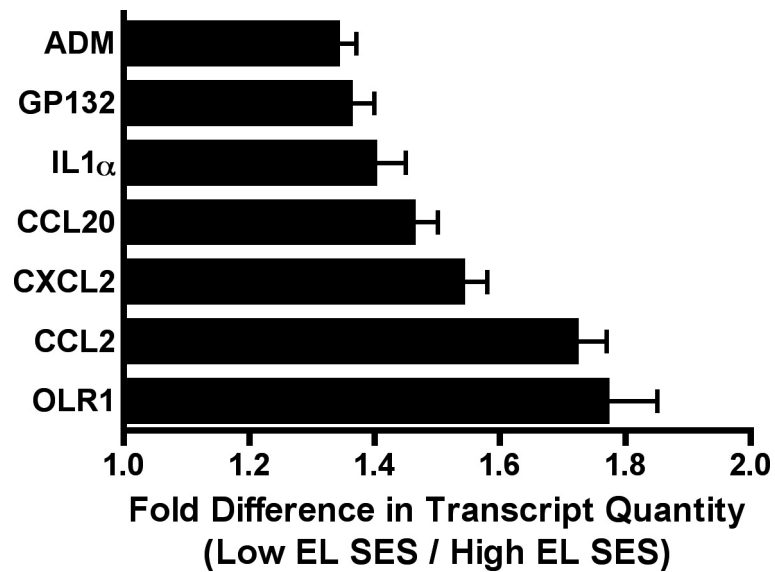


# Supporting Information

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**Fig. S1.** RT-PCR verification of microarray expression results. A subset of 7 transcripts identified as up-regulated in microarray analyses were independently assayed by quantitative real-time RT-PCR. Results show the fold difference in transcript abundance ( $\pm$ SE) between subjects who are low versus high in early-life SES. Up-regulation of all 7 transcripts in low-SES subjects was confirmed by general linear model,  $P < 0.01$ .

**Table S1. Genes overexpressed by subjects who were low vs. high early-life SES**

Symbol	Fold difference	Annotation
<i>HLA-DRB4</i>	2.38	Major histocompatibility complex, class II, DR $\beta$ 4
<i>CCL20</i>	1.69	Chemokine (C-C motif) ligand 20
<i>HBG2</i>	1.63	Hemoglobin, $\gamma$ G
<i>DEFA1</i>	1.61	Defensin, $\alpha$ 1
<i>HBG1</i>	1.58	Hemoglobin, $\gamma$ A
<i>DEFA3</i>	1.58	Defensin, $\alpha$ 3, neutrophil-specific
<i>LOC653600</i>	1.52	Defensin, $\alpha$ 1
<i>GJB2</i>	1.49	Gap junction protein, $\beta$ 2
<i>SERPINB2</i>	1.49	Serpin peptidase inhibitor, clade B
<i>IL1A</i>	1.43	Interleukin 1 $\alpha$
<i>PHLDA1</i>	1.37	Pleckstrin homology-like domain, family A, member 1
<i>XRN2</i>	1.37	5'-3' exoribonuclease 2
<i>FOLR3</i>	1.37	Folate receptor 3 ( $\gamma$ )
<i>CYP1B1</i>	1.34	Cytochrome P450, family 1, subfamily B, polypeptide 1
<i>CCL2</i>	1.32	Chemokine (C-C motif) ligand 2
<i>ALAS2</i>	1.32	Aminolevulinate, $\delta$ -, synthase 2
<i>HLA-DQB1</i>	1.32	Major histocompatibility complex, class II, DQ $\beta$ 1
<i>IFI27</i>	1.30	Interferon, $\alpha$ -inducible protein 27
<i>OLR1</i>	1.30	Oxidized low-density lipoprotein (lectin-like) receptor 1
<i>THBD</i>	1.30	Thrombomodulin
<i>JUP</i>	1.30	Junction plakoglobin
<i>AQP9</i>	1.30	Aquaporin 9
<i>CTSG</i>	1.30	Cathepsin G
<i>ELA2</i>	1.30	Elastase 2, neutrophil
<i>DYSF</i>	1.30	Dysferlin, limb girdle muscular dystrophy 2B
<i>ZNF75</i>	1.30	Zinc finger protein 75
<i>GPR132</i>	1.29	G protein-coupled receptor 132
<i>F3</i>	1.28	Coagulation factor III
<i>CT45-4</i>	1.27	Cancer/testis antigen CT45-4
<i>C1QB</i>	1.27	Complement component 1, q subcomponent, $\beta$ -polypeptide
<i>ANPEP</i>	1.27	Alanyl (membrane) aminopeptidase
<i>CNTNAP2</i>	1.27	Contactin-associated protein-like 2
<i>LRRC50</i>	1.26	Leucine-rich repeat containing 50
<i>ARL5B</i>	1.26	ADP-ribosylation factor-like 5B
<i>BEX1</i>	1.26	Brain-expressed, X-linked 1
<i>BASP1</i>	1.26	Brain-abundant, membrane-attached signal protein 1
<i>CXCL1</i>	1.25	Chemokine (C-X-C motif) ligand 1
<i>SLC16A6</i>	1.25	Solute carrier family 16
<i>MAFB</i>	1.25	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B
<i>BSG</i>	1.25	Basigin
<i>BPI</i>	1.25	Bactericidal/permeability-increasing protein
<i>IFI44L</i>	1.24	Interferon-induced protein 44-like
<i>PFKFB3</i>	1.24	6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3
<i>METRNL</i>	1.24	Eteorin, glial cell differentiation regulator-like
<i>BCL3</i>	1.24	B-cell CLL/lymphoma 3
<i>DEFA4</i>	1.24	Defensin, $\alpha$ 4, corticostatin
<i>OASL</i>	1.24	2'-5'-Oligoadenylate synthetase-like
<i>GPR84</i>	1.23	G protein-coupled receptor 84
<i>TIPARP</i>	1.23	TCDD-inducible poly(ADP-ribose) polymerase
<i>CAMP</i>	1.23	Cathelicidin antimicrobial peptide
<i>ADM</i>	1.23	Adrenomedullin
<i>MSC</i>	1.23	Musculin (activated B cell factor-1)
<i>SRXN1</i>	1.23	Sulfiredoxin 1
<i>HBD</i>	1.22	Hemoglobin, $\delta$
<i>CXCL2</i>	1.22	Chemokine (C-X-C motif) ligand 2
<i>CEACAM8</i>	1.22	Carcinoembryonic antigen-related cell adhesion molecule 8
<i>DUSP5</i>	1.22	Dual-specificity phosphatase 5
<i>VNN1</i>	1.22	Vanin 1

Symbol	Fold difference	Annotation
<i>C15ORF48</i>	1.21	Chromosome 15 open reading frame 48
<i>NEU4</i>	1.21	Sialidase 4
<i>AVPI1</i>	1.21	Arginine vasopressin-induced 1
<i>DSCR1L1</i>	1.21	Regulator of calcineurin 2
<i>CCRN4L</i>	1.21	CCR4 carbon catabolite repression 4-like
<i>CEACAM6</i>	1.21	Carcinoembryonic antigen-related cell adhesion molecule 6
<i>CDKN1A</i>	1.21	Cyclin-dependent kinase inhibitor 1A
<i>EGR2</i>	1.21	Early growth response 2
<i>GAA</i>	1.21	Glucosidase, $\alpha$
<i>EMR1</i>	1.21	EGR-like module containing, mucin-like, hormone receptor-like 1
<i>ZNF385</i>	1.21	Zinc finger protein 385
<i>ERAF</i>	1.20	Erythroid-associated factor
<i>UTS2</i>	1.20	Urotensin 2
<i>HLA-DQA1</i>	1.20	Major histocompatibility complex, class II, DQ $\alpha$ 1
<i>VSTM1</i>	1.20	v-set and transmembrane domain containing 1

**Table S2. Genes underexpressed by subjects who were low vs. high early-life SES**

Symbol	Fold difference	Annotation
<i>HLA-DRB5</i>	0.43	Major histocompatibility complex, class II, DR $\beta$ 5
<i>GSTM2</i>	0.65	Glutathione (S)-transferase M2
<i>KIR2DL1</i>	0.69	Killer cell immunoglobulin-like receptor, 2 domains, long tail, 1
<i>GSTM1</i>	0.69	Glutathione (S)-transferase M1
<i>MYOM2</i>	0.69	Myomesin (M protein) 2,165 kDa
<i>RPS26L</i>	0.70	40S ribosomal protein S26-like
<i>SLC39A8</i>	0.70	Solute carrier family 39 (zinc transporter), member 8
<i>RPS26</i>	0.72	Ribosomal protein S26
<i>SCGB3A1</i>	0.74	Secretoglobin, family 3A, member 1
<i>DPYSL4</i>	0.75	Dihydropyrimidinase-like 4
<i>GSTM3</i>	0.75	Glutathione (S)-transferase M3
<i>GOLGA8B</i>	0.75	Golgi autoantigen, golgin subfamily a, 8B
<i>LOC649853</i>	0.76	Major histocompatibility complex class I HLA-A29.1
<i>PHACS</i>	0.77	1-Aminocyclopropane-1-carboxylate synthase
<i>LOC643516</i>	0.77	Similar to 40S ribosomal protein S26
<i>SMCY</i>	0.77	Jumonji, AT-rich interactive domain 1D
<i>NBPF20</i>	0.77	Neuroblastoma breakpoint family, member 20
<i>TNFAIP8L1</i>	0.77	Tumor necrosis factor, $\alpha$ -induced protein 8-like 1
<i>FKSG14</i>	0.78	Leucine zipper protein FKSG14
<i>DKFZP686K16132</i>	0.78	Similar to BMP2-inducible kinase
<i>TMEM128</i>	0.78	Transmembrane protein 128
<i>NBPF10</i>	0.78	Neuroblastoma breakpoint family, member 10
<i>LILRA3</i>	0.78	Leukocyte immunoglobulin-like receptor, subfamily A, member 3
<i>LRRN3</i>	0.79	Leucine-rich repeat neuronal 3
<i>RBPMS2</i>	0.79	RNA-binding protein with multiple splicing 2
<i>ARHGEF10</i>	0.80	Rho guanine nucleotide exchange factor 10
<i>C9ORF111</i>	0.80	Patatin-like phospholipase domain containing 7
<i>D4S234E</i>	0.80	DNA segment on chromosome 4, 234 expressed sequence
<i>ZHX2</i>	0.80	Zinc fingers and homeoboxes 2
<i>SELPLG</i>	0.80	Selectin P ligand
<i>LYPD2</i>	0.80	LY6/PLAUR domain containing 2
<i>ZNF415</i>	0.80	Zinc finger protein 415
<i>FLJ11795</i>	0.80	FLJ11795 protein
<i>ACAD11</i>	0.80	Acyl-coenzyme A dehydrogenase family, member 11
<i>ANKRD55</i>	0.80	Ankyrin repeat domain 55
<i>FHIT</i>	0.80	Fragile histidine triad gene
<i>RPS4Y1</i>	0.80	Ribosomal protein S4, Y-linked 1

**Table S3. Ligands used to stimulate interleukin 6 production by PBMCs**

Ligand	TLR target	Final dose
PAM3CSK4 (tripalmitoylated lipopeptide)	TLR1/2	10 ng/mL
Peptidoglycan ( <i>Bacillus subtilis</i> )	TLR2	100 ng/mL
Poly(I:C) (double-stranded RNA)	TLR3	100 $\mu$ g/mL
Lipopolysaccharide ( <i>Escherichia coli</i> )	TLR4	100 pg/mL
Flagellin ( <i>Salmonella typhimurium</i> )	TLR5	100 ng/mL
Zymosan ( <i>Saccharomyces cerevisiae</i> )	TLR2/6	10 $\mu$ g/mL
Imiquimod	TLR7	1 $\mu$ g/mL
Poly(U)/LyoVec (single-stranded RNA)	TLR7/8	1 $\mu$ g/mL
ODN 2216 (unmethylated CpG DNA)	TLR9	10 mg/mL
PMA plus INO (phorbol 12-myristate 13-acetate, ionomycin)	+Control	0.02 $\mu$ g/mL
Interleukin 1 $\beta$	+Control	1 ng/mL