**S3 Table.** Types of crosstalk between CD14 and C3 signaling in response to *E. coli* (ANOVA, *p*<0.05).

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of crosstalk** | **n**A | **Gene Symbols** | **Transcription factor**B |
| **1. Interaction effect, IAE**  | 251 | *See 1.1 and 1.2* | AP1, CEBPB, NFKB |
| **1.1 IAE-I** | 110 | See S1 Supporting File: IAE-I Gene List |  |
| ***1.1.1 Synergy*** | 59 | **UP:** ABCA1, ACSL5, AEN, ANXA5, ARFGAP3, ATP13A3, ATP2B1, CCRL2C, CCRL2, CHST7, DKFZp686O24166, EDN1, ELOVL7D, FAM115C, FLT1, INSIG1, IRAK2E, LCP2, NR4A3, NUP188, PFKFB3, SERPINB2, SNX9, SOCS3**DOWN:** 8100125F, ACOX1, AMICA1, ARRB1, ATG16L2, BTK, C10orf54, CEBPB, CLEC10A, CREB5, CTSH, EVI2B, F11R, FLJ10357, GABARAP, GPR177, HLA-DMBC, HLA-DMB, IFNGR1, KIF13A, KIAA0513, KIAA1949, LTA4H, MOSPD2, PGD, PLXNB2, PRCP, RAB3D, RNF41, SEPX1, SULF2, SYK, TMEM71, TNFRSF10C, USP32 | CEBPB, MAX, CEBP;*Icosanoid metabolic process, fatty acid metabolic process, secretion by cell* |
| ***1.1.2 Counteraction I*** G | 38 | **UP:** 8017096F, 8017098F, 8083933F, 8172266F, 8172270F, ADPRH, C15orf48, CCL20, CCL8, CD44, CFBC, CFB, CFB, CH25H, DDX60L, FMNL3, FNIP2, IL1A, IRG1, MAP3K8, PPM1K, PSMA6, PTPRJ, RHOU, SLC43A3, TOR1B, UNQ6228**DOWN:** C22orf9, CBL, CCR2C, CLMN, CPNE2, DNTTIP1, FAM135A, PSTPIP1, PYCARD, TUBA1B, ZFP36L2 | NFKB, STAT1, NFKAPPAB;*Inflammatory response, response to wounding,* *defense response* |
| *1.1.3 Counteraction II* H | 7 | **DOWN:** HBEGF, CDCP1, MITF, NAB2, PPARG, SPP1, STK38L | *n.s.* |
| *1.1.4 Counteraction III* I | 1 | **UP:** DOT1L | *n.s.* |
| *1.1.5 Redundancy* | 2 | **UP:** C9orf30; **DOWN:** TNFRSF12A | *n.s.* |
| *1.1.6 Negative redundancy* | 3 | **DOWN:** CCR2C, KIAA1598, SLC2A9 | *n.s.* |
| **1.2 IAE-II** | 141 | See S2 Supporting File: IAE-II Gene List | AP1, NFKAPPAB, MRF2 |
| **2. Additive effect** | 1480 | See S3 Supporting File: Additive effect Gene List | IRF2, AML1, ELK1 |

A n, number of genes

BAccording to DAVID Bioinformatics Resources 6.7; For Synergy and Counteraction I, associated gene ontology (Biological Processes) is given as well. *n.s.*, no significant hit

C The same gene was detected with two (CCRL2, HLA-DMB, CCR2) or three (CFB) different probe sets, of which each is associated with a non-redundant Affymetrix transcript ID.

D Doubled underlined, IAE-I genes which changed their crosstalk type upon C5-deficiency.

E Underlined, IAE-I genes which kept their crosstalk type upon C5-deficiency. The remaining IAE-I genes lost their interaction effect upon C5-deficiency

F The Affymetrix transcript ID is given due to the lack of official gene symbol.

G,H,I Counteractions are defined as: CD14 counteracts blocking function of C3 (G), C3 counteracts mediating function of CD14 (H), C3 counteracts blocking function of CD14 (I).