

Cancer Inflammation & Immunity Crosstalk PCR Array

Immune & Inflammatory Responses:

Immunostimulatory Factors: IFNG, IL2, IL12A, IL12B, IL15, TNF.

Immunosuppressive Factors: CD274 (PD-L1), CSF2 (GM-CSF), CTLA4, CXCL12 (SDF1), CXCL5, IDO1 (IDO), IL10, IL13, IL4, IL8, MIF, NOS2 (iNOS), PDCD1 (PD1), PTGS2 (COX2), TGFB1, VEGFA.

Pro-Inflammatory Genes: CCL2 (MCP-1), CCL20 (MIP-3A), IFNG, IL1A, IL1B, IL2, IL6, IL12A, IL12B, IL17A, IL23A, PTGS2 (COX2), TLR4, TNF, VEGFA.

Anti-Inflammatory Genes: IL4, IL10, IL13, TGFB1.

Enzymatic Modulators of Inflammation & Immunity: AICDA (AID), GZMA, GZMB, IDO1 (IDO), NOS2 (iNOS), PTGS2 (COX2).

Antigen Presentation: HLA-A, HLA-B, HLA-C, MICA, MICB.

Chemokines: CCL2 (MCP-1), CCL4 (MIP-1B), CCL5 (RANTES), CCL18 (PARC), CCL20 (MIP-3A), CCL21, CCL22 (MDC), CCL28, CXCL1, CXCL2, CXCL5, CXCL9 (MIG), CXCL10 (IP-10), CXCL11 (I-TAC, IP-9), CXCL12 (SDF1).

Chemokine Receptors: ACKR3 (CXCR7), CCR1, CCR2, CCR4, CCR7, CCR9, CCR10, CXCR1 (IL8RA), CXCR2 (IL8RB), CXCR3, CXCR4, CXCR5.

Interleukins: IL1A, IL1B, IL2, IL4, IL6, IL8, IL10, IL12A, IL12B, IL13, IL15, IL17A, IL23A.

Other Cytokines: KITLG (SCF), MIF, SPP1, TNF, TNFSF10 (TRAIL).

Growth Factors & Receptors: CSF1 (MCSF), CSF2 (GM-CSF), CSF3 (GCSF), EGF, EGFR, IGF1, TGFB1, VEGFA.

Signal Transduction:

Interferon Signaling: GBP1, IFNG, IL6, IRF1.

Interferon-Responsive Genes: CCL2 (MCP-1), CCL5 (RANTES), CXCL9 (MIG), CXCL10 (IP-10), GBP1, IRF1, MYD88, STAT1, TLR3, TNFSF10 (TRAIL).

NFkB Targets: BCL2L1 (BCL-XL), CCL2 (MCP-1), CCL5 (RANTES), CSF1 (MCSF), CSF2 (GM-CSF), CSF3 (GCSF), IFNG, IL8, TNF.

STAT Targets: CCL2 (MCP-1), CCL4 (MIP-1B), CCL5 (RANTES), CSF1 (MCSF), CSF2 (GM-CSF), CSF3 (GCSF), CXCL9 (MIG), CXCL10 (IP-10), CXCL11 (I-TAC, IP-9), CXCL12 (SDF1), IL1B, IL6, IL8, IL10, IL17A, IL23A, MYC.

Toll-Like Receptor Signaling: TLR2, TLR3, TLR4, MYD88.

Transcription Factors: FOXP3, HIF1A, IRF1, MYC, NFkB1, STAT1, STAT3, TP53 (p53).