

Supplementary Table 1. Cytokines and chemokines levels in control conjunctival sac fluids and blood samples

Cytokines and chemokines		Conjunctival sac fluid levels (pg/ml) ^a	Serum levels (pg/ml) ^a
EGF	Endothelial growth factor	105.0 (125.8±72.9)	242 (301.5±147.7)
Eotaxin	C-C motif chemokine 11; eosinophil chemotactic protein	4.4 (6.3±5.1)	85.7 (92.9±45.8)
G-CSF	Granulocyte colony-stimulating factor	38.9 (50.2±32.4)	21.6 (24.7±13.1)
GM-CSF	Granulocyte-Macrophage Colony Stimulating Factor	1.3 (1.5±0.8)	5.2 (4.9±1)
IFN-α2	Interferon, alpha2	40.5 (53.6±40.0)	5.7 (5.1±1.8)
IFN-γ	Interferon, gamma	3.1 (3.3±1.2)	2.5 (5.5±9)
IL-10	Interleukin 10	2.0 (2.3±1.3)	<OOR
IL-12 (p40)	Interleukin-12 subunit p40	5.4 (6.5±3.4)	<OOR
IL-12 (p70)	Interleukin-12 subunit p70	3.2 (3.3±1.0)	2.1 (2.4±0.7)
IL-13	Interleukin 13	23.1 (27.5±16.3)	<OOR
IL-15	Interleukin 15	2.3 (2.2±0.5)	<OOR
IL-17A	Interleukin 17	<OOR	<OOR
IL-1RA	Interleukin-1 receptor antagonist	970.0 (1056.2±687.5)	10.6 (10.3±3.1)
IL-1α	Interleukin 1, alpha	16.5 (18.9±7.8)	<OOR
IL-1β	Interleukin 1, beta	2.2 (2.4±0.9)	<OOR
IL-2	Interleukin 2	1.0 (1.1±0.4)	<OOR
IL-3	Interleukin 3	<OOR	<OOR
IL-4	Interleukin 4	6.1 (12.6±20.0)	<OOR
IL-5	Interleukin 5	1.6 (2.8±3.8)	<OOR
IL-6	Interleukin 6	2.7 (2.9±1.6)	<OOR
IL-7	Interleukin-7	27.3 (26.8±10.9)	2.5 (2.8±0.9)
IL-8	Interleukin 8	19.9 (23.9±8.8)	4.9 (5.9±2.5)
IP-10	CXCL10	2891.0 (3413.2±1793.8)	198 (234.7±90.4)
MCP-1	CCL2	76.2 (113.9±97.4)	407 (407.8±187)
MIP-1α	CCL3	6.3 (7.5±3.9)	0 (2.1±3.2)
MIP-1β	CCL4	5.6 (6.3±1.9)	36.9 (42.7±23.5)
TNF-α	Tumor necrosis factor, alpha	0.6 (0.5±0.4)	7.6 (7.6±2.9)
TNF-β	Tumor necrosis factor, beta	0.0 (0.7±0.8)	<OOR
VEGF	Vascular endothelial growth factor	52.6 (55.3±26.1)	79.3 (96±49.7)

^aValues are expressed as Median (Mean±SD); OOR<: out (below) of detection range

Supplementary Table 2. Identified Networks linking molecules showing kinetic Profile I and Profile II

Profile	Network ID	Molecules in the Network	Score	Focus molecules	Top functions
I	1	MIP-1α , MIP-1β , CCL11/Eotaxin , Cpla2, GM-CSF , G-CSF , CXCL10/IP10 , Eotaxin, Fcer1, Fcgr3, Ggt, Gm-csf, Gsk3, HLA-DQ, HLA-DR, Ifn gamma, Iga, Ige, IL-4 , IL-5 , IL-10 , IL-15, IL-12(complex)/IL-12(p70) , IL-12(p40) , Immunoglobulin, Interferon alpha, lymphotoxin-alpha-beta2, MHC Class II (complex), Nr1h, PI3K (complex), STAT5a/b, Tlr, TNF , Tnf receptor, U1 snRNP	25	12	Cell-to-cell Signalling and Interaction, Cellular Movement, Immune Cell Trafficking
	2	Akt, Ap1, BCR (complex), CD3, Creb, Cyclin E, EGF , ERK, ERK1/2, Hsp27, Hsp90, IFN Beta, IFN-γ , IgG, Igm, IL-2 , IL-7 , IL-13 , IL-23, IL-1α , IL-1RA , JnK, TNF , Mapk, Nfat (family), NFkB (complex), P38 MAPK, PI3K (family) Ras, SAA, SRC (family), TCR, Vegf, VEGF-A , VEGF-B	20	10	Cell-to-cell Signalling and Interaction, Cellular Growth and Proliferation, Inflammatory Response
II	3	Ap1, BAI1, MCP-1 , Cdk, CLEC11A, IL-8 , DGKH, ECE1, ERK, ERK1/2, Fcer1, FXN, GNA14, Histone h3, IL-1, IL-6 , IL-36A, Jnk, LDL, LPAR3, MARVELD3, MYO1E, NFkB (complex), NOD1, P38 MAPK, PDGF-BB, PI3K (family), Pkc(s), PLA2G7, STAB2, TFF2, Tlr, TMEM9B, TRIO, VRK2	8	3	Inflammatory Disease, Connective tissue Disorders

Network-eligible molecules/proteins that interact with other molecules in the Ingenuity Knowledge Database.

In bold: focus molecules belonging to the panel of cytokines/chemokines analysed.