

Table S1. BioPlex Protein Array analysis of COC-secreted cytokine and chemokine families secreted during in vitro fertilization (pg/ml)

	Sperm	COCs	In vitro fertilization	In vitro fertilization + TLR2/TLR4 antibody
IL1 β	2.30 \pm 1.28	9.58 \pm 3.15	32.62 \pm 0.06	17.02 \pm 0.35
IL6	0.33 \pm 0.16	86.13 \pm 1.83	470.55 \pm 132.83	230.55 \pm 75.31
IL9	–	3.74 \pm 0.51	30.84 \pm 2.99	15.88 \pm 2.35
IL10	–	3.87 \pm 1.89	19.41 \pm 0.81	9.23 \pm 0.28
IL12(p40)	0.56 \pm 0.32	7.28 \pm 2.59	20.19 \pm 1.29	9.66 \pm 2.11
IL13	1.43 \pm 1.14	35.11 \pm 7.02	72.4 \pm 12.57	47.95 \pm 1.58
IL17	–	0.74 \pm 0.54	4.65 \pm 0.52	2.46 \pm 0.63
MCP1	–	190.01 \pm 76.10	771.33 \pm 57.8	500.44 \pm 56.36
MIP1 α	–	7.87 \pm 3.73	297.3 \pm –22.98	84.09 \pm 12.19
MIP1 β	1.09 \pm 0.51	186.41 \pm 12.47	557.12 \pm –19.91	325.45 \pm 18.88
RANTES	1.77 \pm 0.25	199.9 \pm 22.2	431.45 \pm 109.95	233.25 \pm 89.87
TNF α	–	4.39 \pm 0.83	58.62 \pm 3.72	16.95 \pm 7.88

Sperm (1.5×10^5 /well), COCs (50 COCs/well), or both (in vitro fertilization), were cultured with (+TLR2/4 antibody) or without neutralizing antibodies for 24 hours. Media samples were collected and cytokines present in the media were analyzed using a Bio-Plex Mouse Cytokine 23-Plex Panel.