

Additional file 6: Concentrations of cytokines in asthmatic patients prone to re-infection at steady state. Cytokines concentrations were measured during exacerbation or at steady state in plasma, sputum fluids and supernatants of MNC stimulated with Poly(I:C), Gardiquimod, lipopoly(I:C) or not (Medium). Patients only infected during the exacerbation (V+V-) were compared to those infected during both periods (V+V+). Results are expressed as pg/ml [median with interquartile range (IQR)]. ND :not detectable, NE: Not evaluated. *: indicates a statistical significance (p <0.0) between the 2 groups. ^{1,2,3} indicate an absolute standardized difference greater than 0.2, 0.5 and 0.8 respectively

Exacerbation		Serum		Sputum		MNC Medium		MNC P(I:C)		MNC Gardiquimod		MNC Lipopoly(I:C)	
		V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+
CXCL8	Median	ND	ND	3929	2029 ¹	5543	2057 ¹	8804	2856 ¹	36749	30647	8065	3895
	[IQR]			[1188-7259]	[710-5251]	[509-30823]	[893-8093]	[1575-32237]	[1560-13529]	[2110-70279]	[6027-61665]	[2359-21575]	[1971-16866]
IFN-β	Median	42	37	16	5	5	17 ²	5	18 ¹	5	17 ¹	NE	NE
	[IQR]	[23-91]	[19-101]	[5-21]	[5-34]	[5-16]	[5-22]	[5-15]	[5-36]	[5-16]	[5-32]		
IFN-γ	Median	493	207* ²	12	1* ³	2	14	95	27* ²	47	28 ¹	82	32* ³
	[IQR]	[104-935]	[28-499]	[2-109]	[1-2]	[2-35]	[2-25]	[15-322]	[15-45]	[23-200]	[2-192]	[57-243]	[2-76]
IL-1β	Median	2	2	4	58* ²	31	7 ¹	2	2	204	260	2	2
	[IQR]	[1-134]	[2-18]	[2-70]	[39-225]	[2-60]	[2-24]	[2-9]	[2-48]	[65-878]	[10-673]	[2-64]	[2-85]
IL-22	Median	62	78	103	78	42	69	79	64	65	72 ¹	70	78
	[IQR]	[10-142]	[30-137]	[5-491]	[10-123]	[10-107]	[16-96]	[10-116]	[15-99]	[15-276]	[15-89]	[26-114]	[17-99]
IL-29	Median	444	895* ¹	8	12	15.5	33 ¹	10	12	15	10*	8	11
	[IQR]	[277-944]	[248-1550]	[5-36]	[3-49]	[5-40]	[5-34]	[5-45]	[5-34]	[5-40]	[5-37]	[5-31]	[5-19]
IL-5	Median	48	17.5 ¹	95	13* ²	2	4 ²	3	13	6	13	2	8
	[IQR]	[6-89]	[5-73]	[8-227]	[4-83]	[2-7]	[2-17]	[2-42]	[2-32]	[2-37]	[2-13]	[2-42]	[2-18]
IL-6	Median	2	10* ²	23	61 ¹	163	29 ¹	256	111	1128	1528	330	219
	[IQR]	[2-9]	[2-27]	[2-83]	[8-334]	[2-318]	[2-225]	[16-470]	[48-368]	[498-7690]	[431-4929]	[116-784]	[37-1133]
Steady State		Serum		Sputum		MNC Medium		MNC P(I:C)		MNC Gardiquimod		MNC Lipopoly(I:C)	
		V+ V-	V+V+	V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+	V+ V-	V+ V+
CXCL8	Median	ND	ND	178	124 ¹	4808	7444	11521	12280	19259	18924	10366	10458 ¹
	[IQR]			[2-612]	[10-43724]	[898-34261]	[1719-19284]	[1243-41809]	[1841-48855]	[10742-41259]	[11335-30474]	[4262-17339]	[2245-16074]
IFN-β	Median	48	39	19	5 ³	5	16	5	16 ¹	5	19 ¹	NE	NE
	[IQR]	[21-114]	[5-141]	[5-60]	[5-6]	[5-22]	[5-20]	[5-25]	[5-19]	[5-22]	[5-26]		
IFN-γ	Median	172	119	2	2 ¹	32	58 ¹	343	300	547	620	3605	370 ¹
	[IQR]	[21-944]	[76-641]	[2-18]	[2-10]	[2-135]	[6-166]	[50-2689]	[29-7625]	[314-8661]	[238-2335]	[554-10551]	[123-11389]
IL-1β	Median	2	10	31	231 ²	64	14 ¹	52	124 ¹	215	656 ¹	72	24 ¹
	[IQR]	[1-89]	[2-35]	[2-87]	[2-519]	[5-119]	[4-220]	[8-185]	[17-403]	[162-2506]	[228-1353]	[32-285]	[7-311]
IL-22	Median	95	124 ¹	5	542* ³	101	125 ¹	110	116	140	101 ¹	112	112
	[IQR]	[8-146]	[22-142]	[5-6]	[40-720]	[75-152]	[80-154]	[63-175]	[69-228]	[75-206]	[65-161]	[105-150]	[78-258]
IL-29	Median	663	713	139	14 ²	33	35 ¹	36	18	27	20	37	10* ²
	[IQR]	[278-1376]	[343-1352]	[16-547]	[10-70]	[10-42]	[10-77]	[10-105]	[10-89]	[10-53]	[10-39]	[10-78]	[7-40]
IL-5	Median	36	32	149	34 ¹	7	14	3	8	7	15	3	1 ¹
	[IQR]	[12-75]	[6-147]	[10-292]	[28-73]	[1-86]	[1-17]	[1-58]	[1-15]	[1-53]	[1-46]	[1-51]	[1-15]
IL-6	Median	2	2 ²	1	2 ²	379	370	796	1453	2963	3712	698	1148
	[IQR]	[1-4]	[2-5]	[1-2]	[1-73]	[8-1354]	[4-577]	[209-2616]	[247-4252]	[1695-6808]	[780-9376]	[326-2945]	[330-5113]