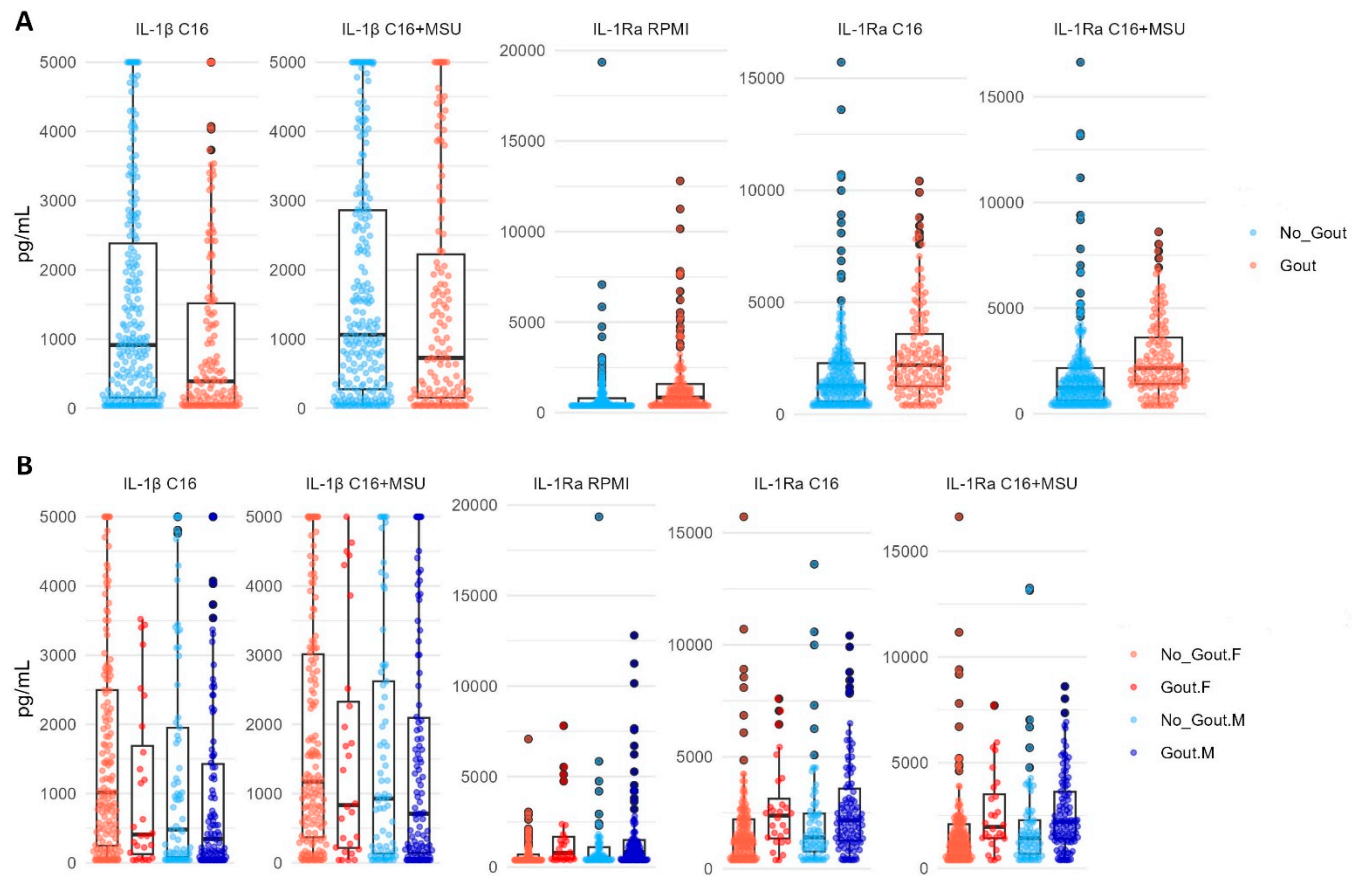


Sex-Specific Differences in Cytokine Production Capacity in Patients with Gout Compared to Controls



Supplementary Figure S1. Box plots showing distribution of cytokine levels in PBMCs from patients with and without gout (**A**) and split by sex (**B**) that were stimulated in vitro for 24h with C16 and C16+MSU.

Supplementary Table S1. Baseline characteristics of the gout and control cohorts in all patients included for experiment 1.

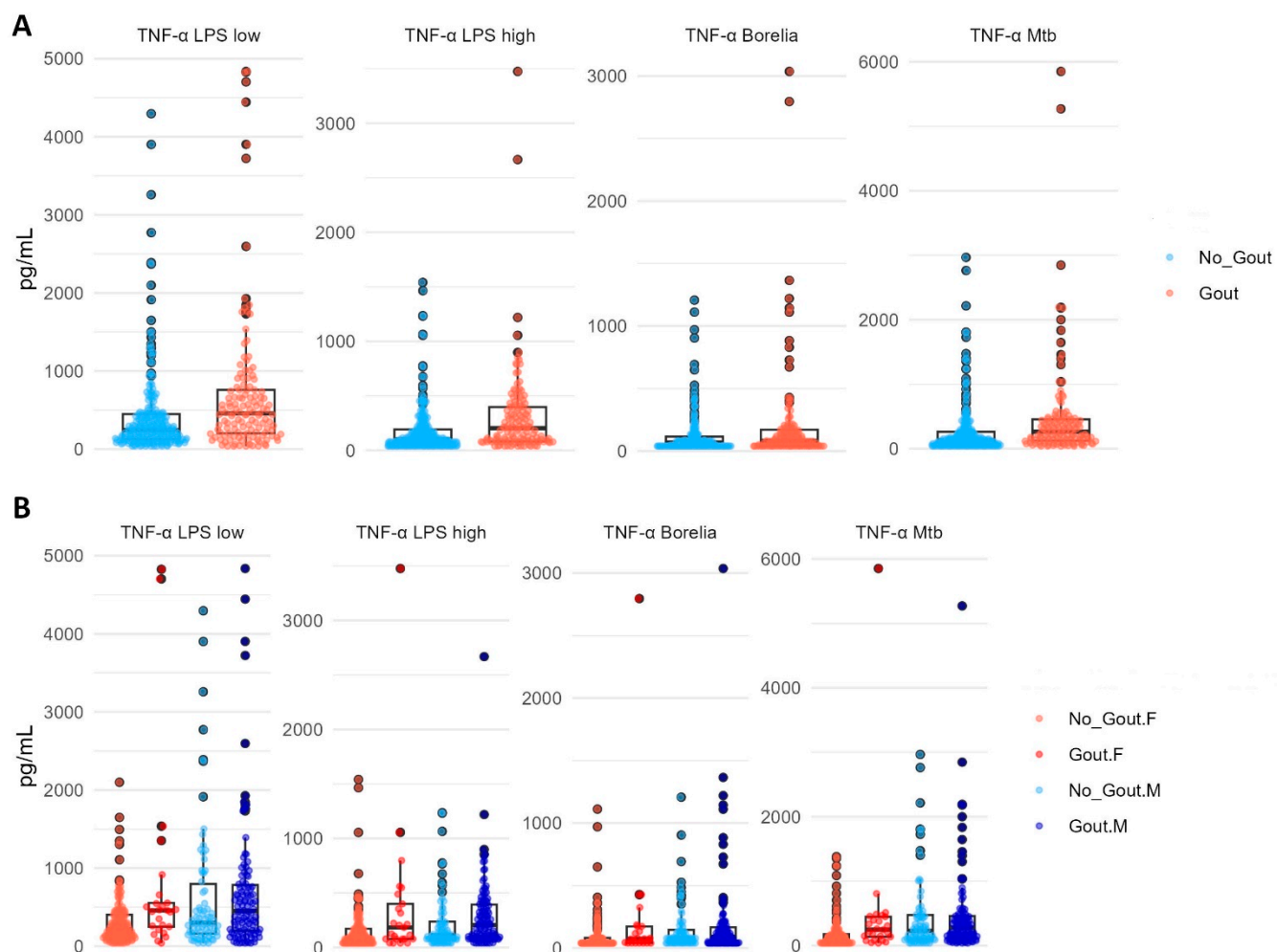
Characteristic	<i>n</i>	No_Gout, <i>n</i> = 227 ¹	Gout, <i>n</i> = 134 ¹	<i>p</i> -value ²
Sex	361			<0.001
F		154 (68%)	28 (21%)	
M		73 (32%)	106 (79%)	
Age (years)	361	61 (53, 69)	62 (54, 68)	0.8
BMI	354	28.7 (26.2, 32.0)	29.7 (26.7, 33.1)	0.035
Unknown		6	1	
Urate (mg/dL)	361	5.30 (4.30, 6.30)	6.70 (5.53, 8.10)	<0.001

¹n (%); Median (IQR); ²Pearson's Chi-squared test; Wilcoxon rank sum test.

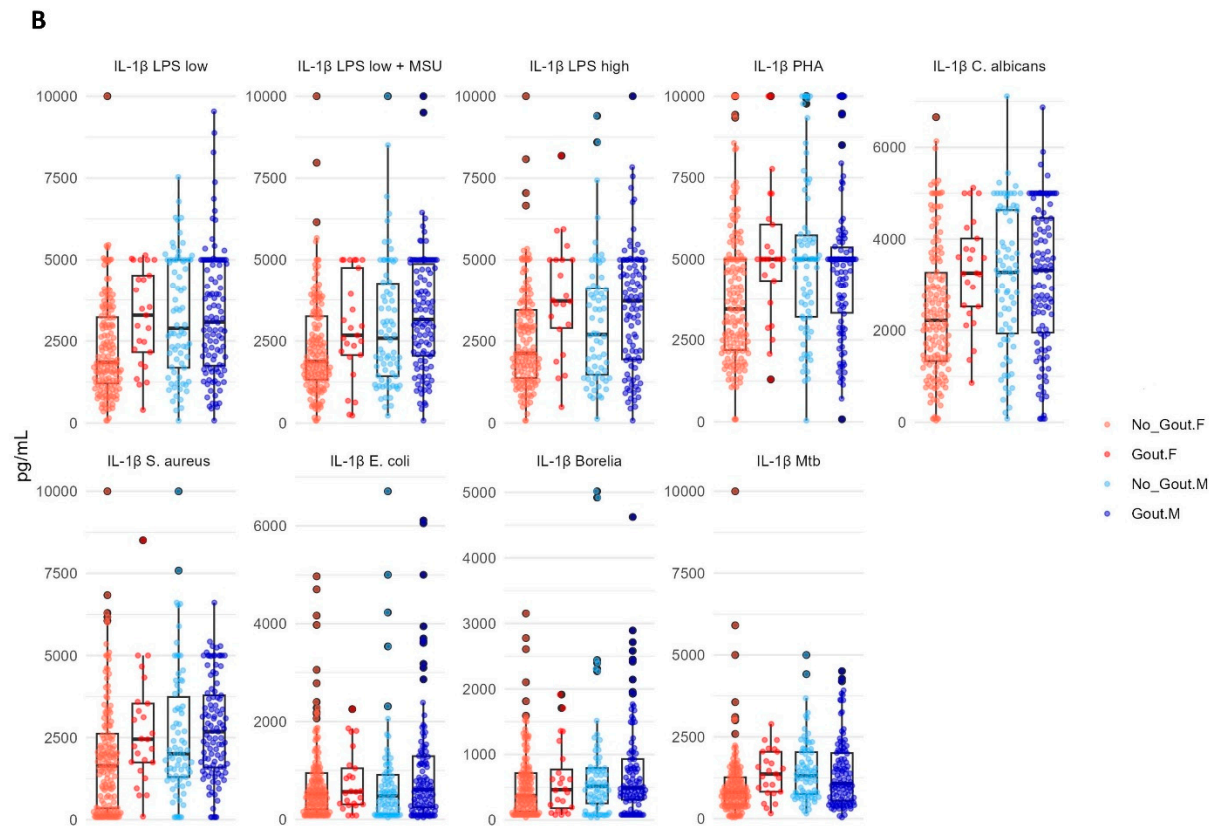
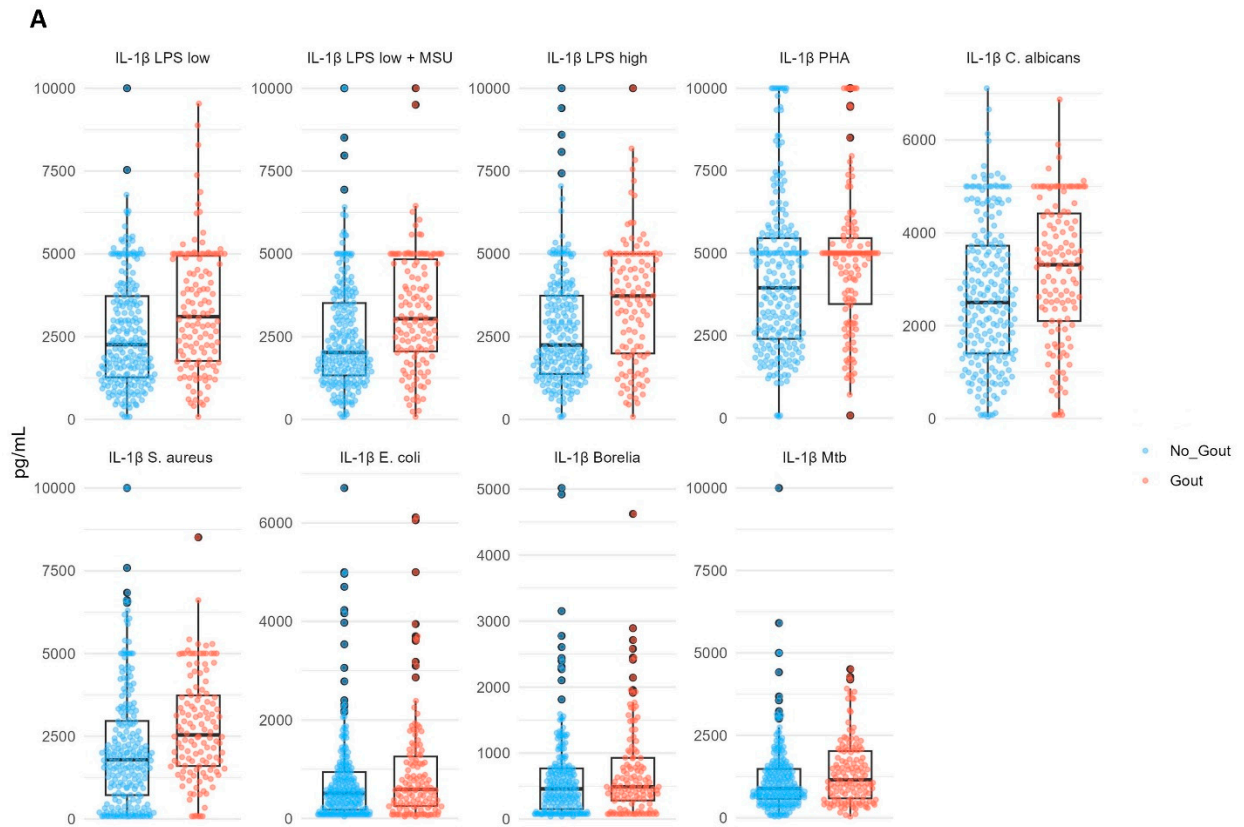
Supplementary Table S2. Baseline characteristics only for the gout patients included for experiment 1.

Characteristic	<i>n</i>	F, <i>n</i> = 28 ¹	M, <i>n</i> = 106 ¹	<i>p</i> -value ²
Age (years)	134	66 (62, 70)	60 (51, 66)	0.002
BMI	133	30.6 (28.0, 34.0)	29.4 (26.7, 32.3)	0.4
Unknown		0	1	
Urate (mg/dL)	134	6.60 (5.50, 7.55)	6.80 (5.53, 8.45)	0.2

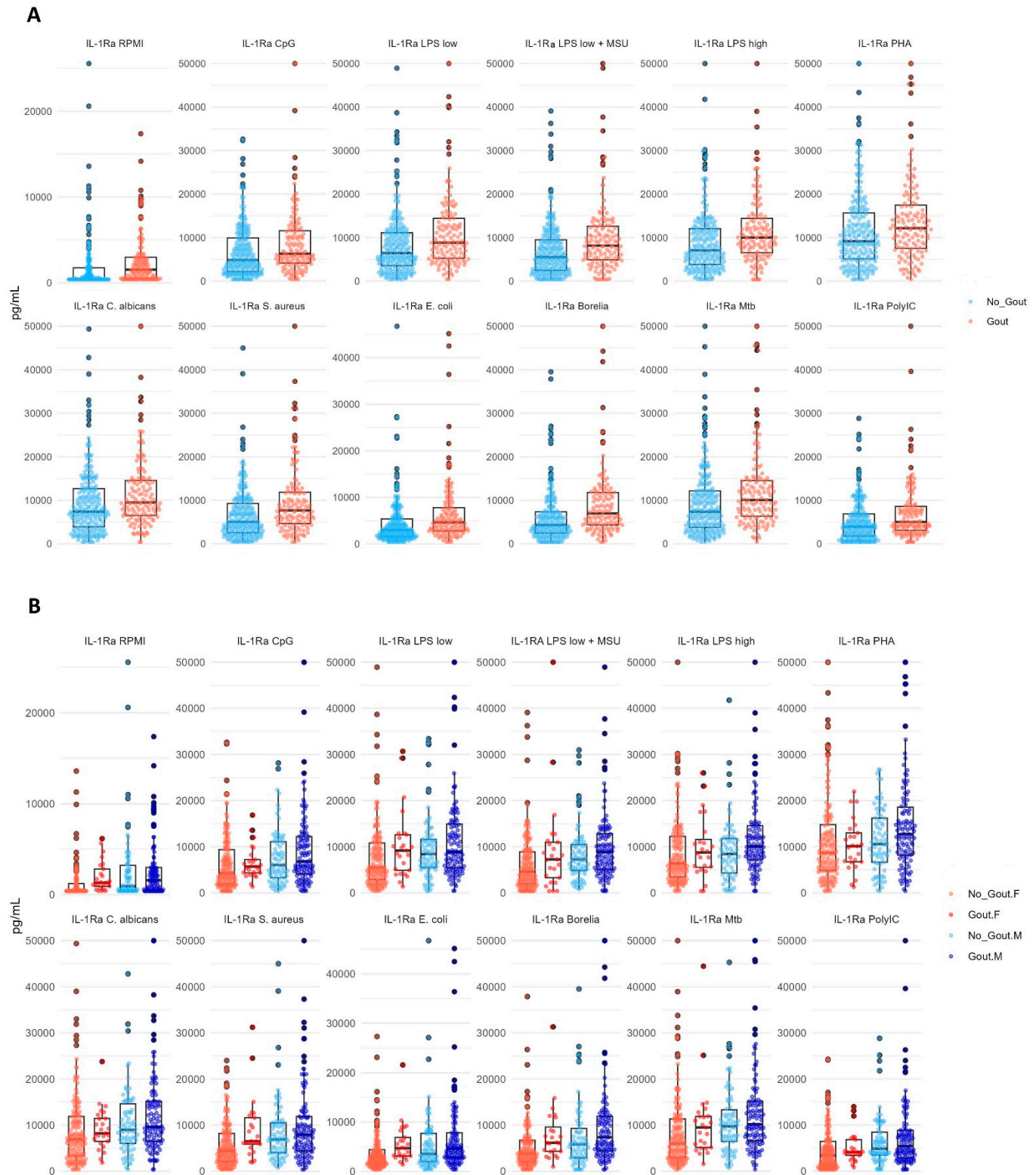
¹Median (IQR); ²Wilcoxon rank sum test.



Supplementary Figure S2. Box plots showing distribution of TNF- α levels in PBMCs from patients with and without gout (**A**) and split by sex (**B**) that were stimulated in vitro for 24h.



Supplementary Figure S3. Box plots showing distribution of IL-1 β levels in PBMCs from patients with and without gout (**A**) and split by sex (**B**) that were stimulated in vitro for 24h.



Supplementary Figure S4. Box plots showing distribution of IL-1Ra levels in PBMCs from patients with and without gout (**A**) and split by sex (**B**) that were stimulated in vitro for 24h.

Supplementary Table S3. Baseline characteristics of the gout and control cohorts in all patients included for experiment 2.

Characteristic	<i>n</i>	No_Gout, <i>n</i> = 224 ¹	Gout, <i>n</i> = 131 ¹	<i>p</i> -value ²
Sex	355			<0.001
F		150 (67%)	25 (19%)	
M		74 (33%)	106 (81%)	
Age (years)	355	61 (53, 68)	63 (55, 68)	0.4
BMI	345	28.4 (25.9, 31.6)	30.1 (27.1, 33.2)	0.002
Unknown		10	0	
Urate (mg/dL)	355	5.20 (4.28, 6.20)	6.70 (5.60, 8.15)	<0.001

¹n (%); Median (IQR); ²Pearson's Chi-squared test; Wilcoxon rank sum test.

Supplementary Table S4. Baseline characteristics only for the gout patients included for experiment 2.

Characteristic	<i>n</i>	F, <i>n</i> = 25 ¹	M, <i>n</i> = 106 ¹	<i>p</i> -value ²
Age (years)	131	66 (62, 71)	61 (52, 67)	0.006
BMI	131	30.9 (29.1, 34.9)	29.8 (26.9, 32.6)	0.15
Urate (mg/dL)	131	6.60 (5.60, 7.50)	6.80 (5.63, 8.70)	0.2

¹Median (IQR); ²Wilcoxon rank sum test.