

Supplementary Information

The effect of smoking on chronic inflammation, immune function and blood cell composition

Ingrid Elisia¹, Vivian Lam¹, Brandon Cho¹, Mariah Hay¹, Michael Yu Li¹, Michelle Yeung¹,
Luke Bu², William Jia², Nancy Norton³, Stephen Lam³, Gerald Krystal^{1*}

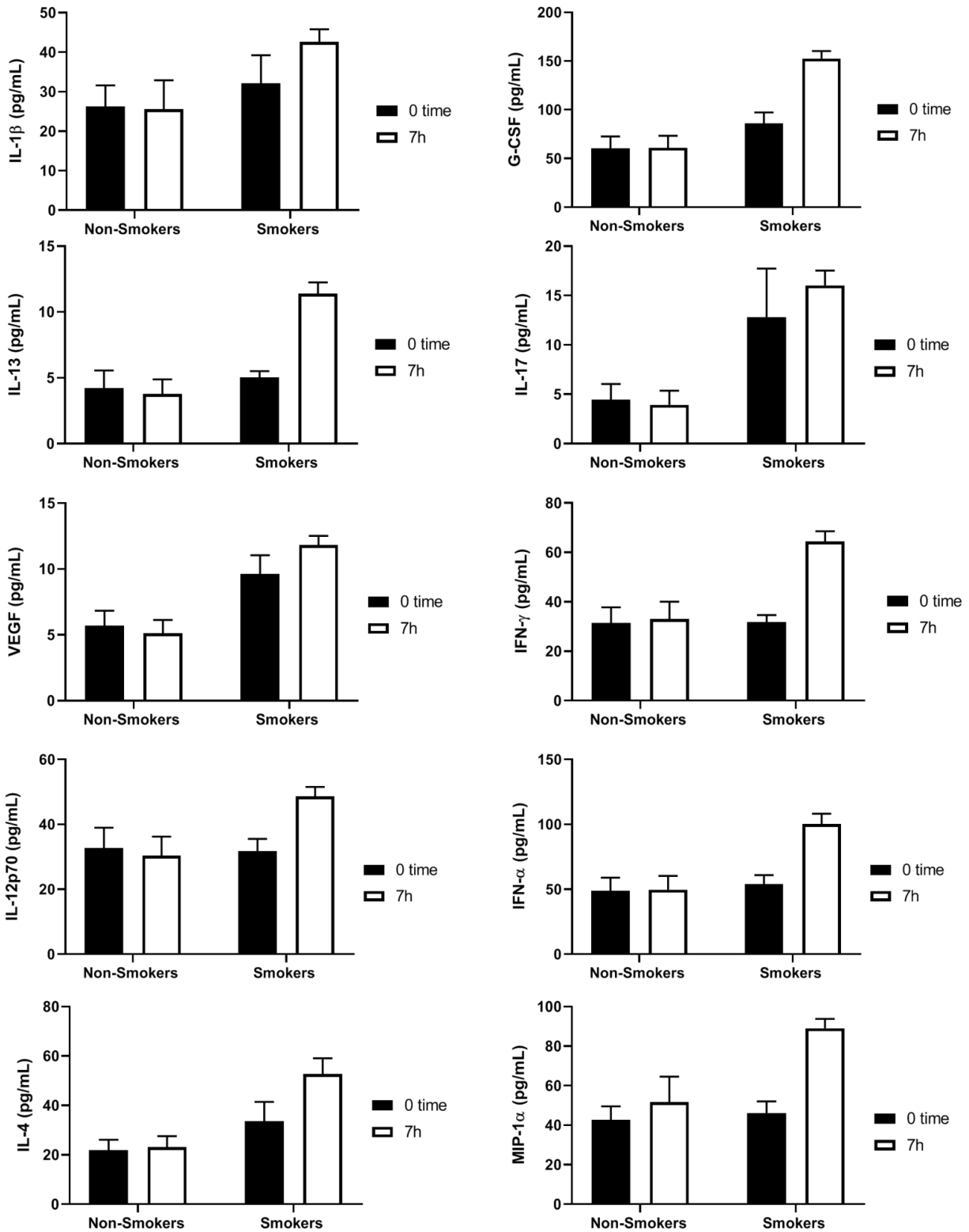
¹The Terry Fox Laboratory, BC Cancer,
Vancouver, British Columbia, Canada

²Brain Research Centre, University of British Columbia,
Vancouver, British Columbia, Canada

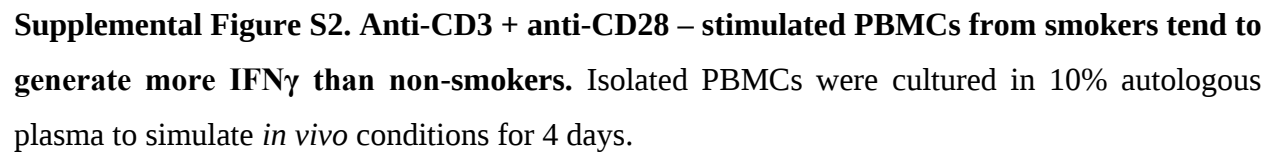
³Department of Integrative Oncology, British Columbia Cancer Research Center,
Vancouver, British Columbia, Canada

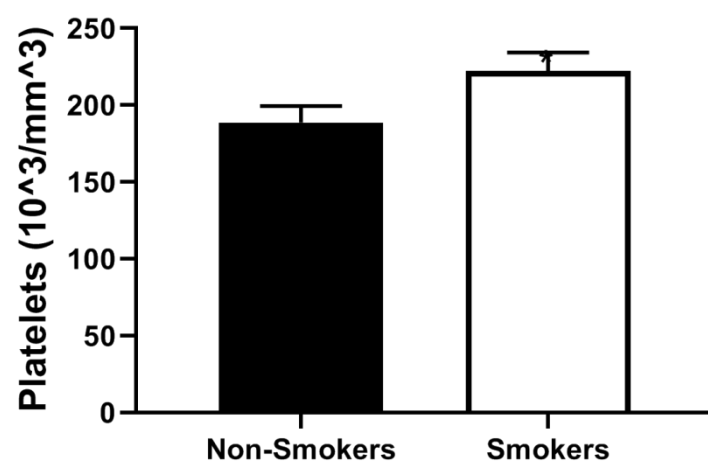
*Corresponding author

E-mail: gkrystal@bccrc.ca (GK)



Supplemental Figure S1. Incubation of blood samples from smokers generates higher cytokines/chemokines than non-smokers. Unstimulated blood was incubated for 7h at 37°C and cytokines/chemokines in the plasma were quantified using luminex assay.





Supplemental Figure S3. Platelet numbers tend to be higher in smokers than non-smokers.

Supplemental Table S1. P values from Pearson correlation analysis between baseline parameters.*

	CRP	Fibrinogen	CEA	WBC	Lymphocyte	Monocyte	Granulocyte	Treg	CD56 NK	Hgb	Hct	RDW	Pct	IL6	IL1 β	IL1RA
CRP																
Fibrinogen	0.757															
CEA	0.000	0.635														
WBC	0.013	0.002	0.001													
Lymphocyte	0.340	0.000	0.126	0.000												
Monocyte	0.027	0.002	0.002	0.000	0.000											
Granulocyte	0.009	0.027	0.001	0.000	0.001	0.000										
Treg	0.609	0.056	0.988	0.038	0.027	0.485	0.069									
CD56 NK	0.319	0.068	0.304	0.017	0.034	0.013	0.044	0.106								
Hgb	0.807	0.043	0.544	0.050	0.223	0.624	0.041	0.250	0.101							
Hct	0.922	0.149	0.344	0.224	0.332	0.714	0.207	0.353	0.105	0.000						
RDW	0.372	0.154	0.239	0.150	0.180	0.085	0.234	0.032	0.340	0.145	0.150					
Pct	0.068	0.001	0.038	0.000	0.000	0.000	0.000	0.056	0.005	0.692	0.962	0.521				
IL6	0.006	0.500	0.004	0.036	0.819	0.034	0.010	0.229	0.583	0.899	0.513	0.781	0.358			
IL1β	0.581	0.067	0.821	0.704	0.170	0.868	0.988	0.118	0.520	0.224	0.270	0.764	0.123	0.996		
IL1RA	0.578	0.537	0.649	0.802	0.277	0.969	0.497	0.303	0.502	0.118	0.148	0.974	0.430	0.136	0.000	
R =	>0.9	0.8-0.9	0.7-0.8	0.6-0.7	0.5-0.6	0.4-0.5	0.3-0.4	0.2-0.3								

