

Figure S1. Microphotographs of cells after being processed for the comet assay: (a) buccal lymphocytes (BLs); (b) peripheral blood lymphocytes (PBLs); (c) whole venous blood leukocytes (WVBLs); and (d) whole capillary blood leukocytes (WCBLs). Cells were stained with ethidium bromide (50 μ L, 20 μ g/mL) and examined by using an Olympus BX41 (Japan) fluorescence microscope equipped with a high-sensitivity CCD (charge-coupled device) camera.

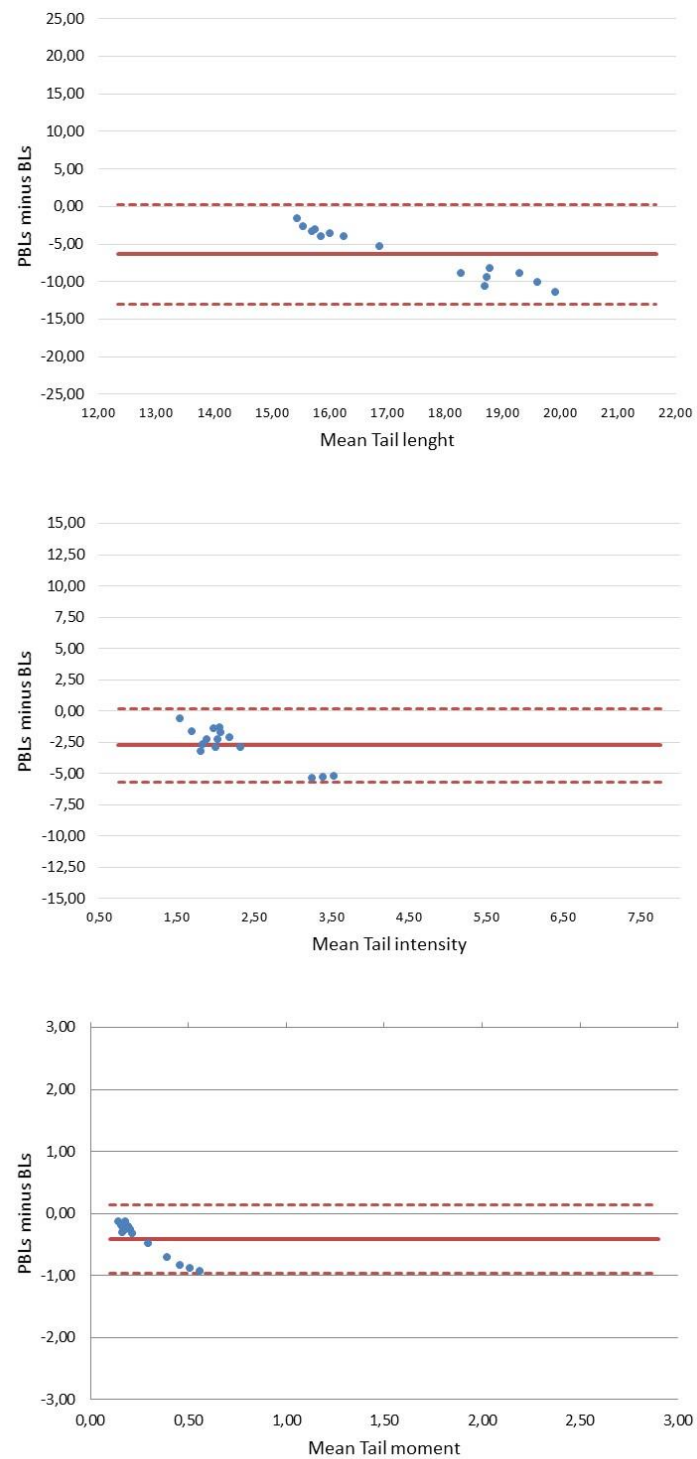


Figure S2. Bland-Altman plots illustrating the agreement between the damage parameters evaluated in peripheral blood lymphocytes (PBLs; gold standard test) and those evaluated in buccal lymphocytes (BLs).

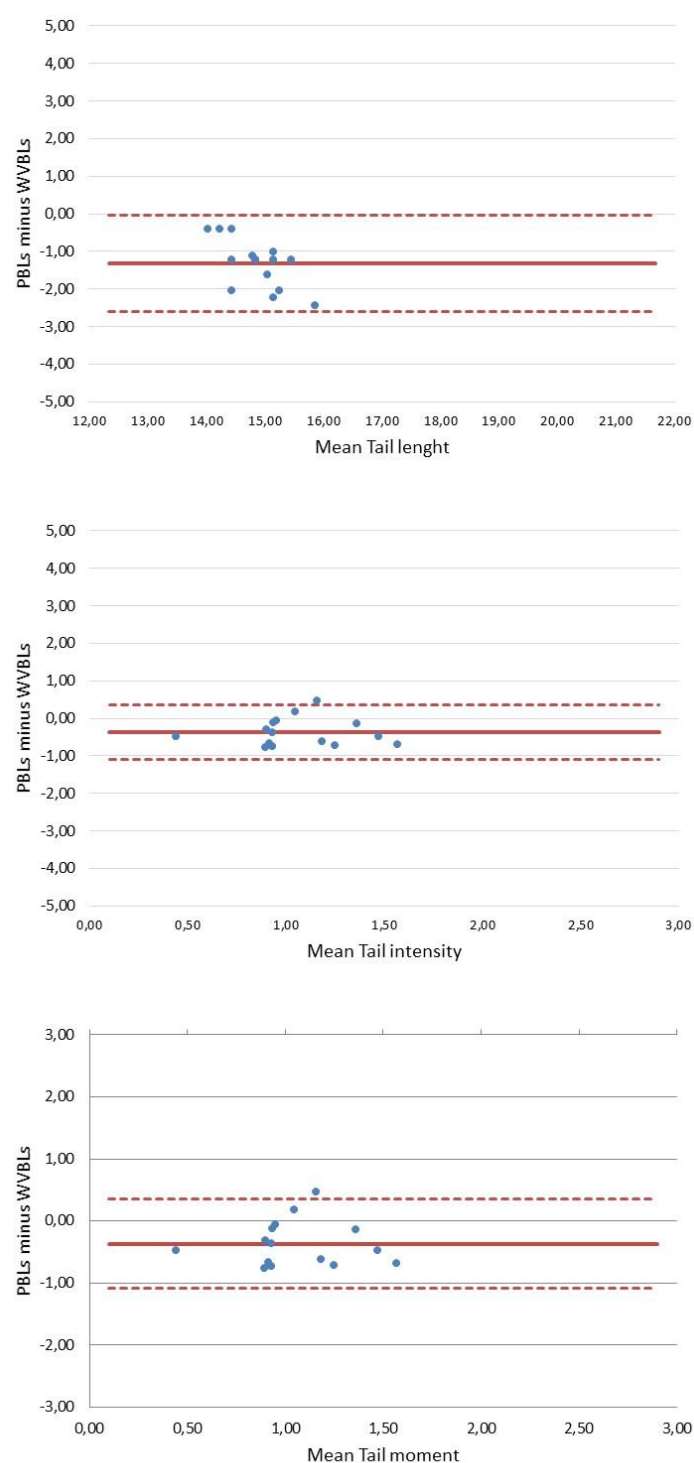


Figure S3. Bland-Altman plots illustrating the agreement between the damage parameters evaluated in peripheral blood lymphocytes (PBLs; gold standard test) and those evaluated in whole venous blood leukocytes (WVBLs).

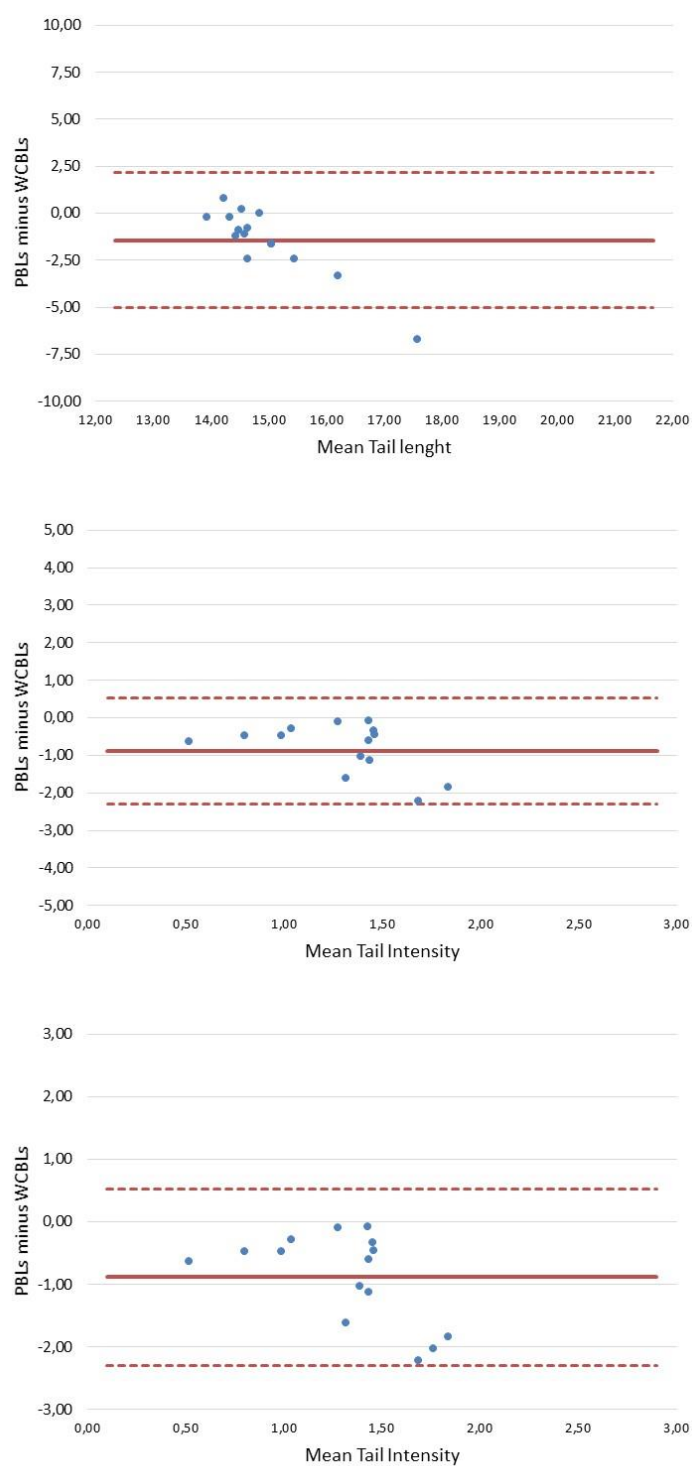


Figure S4. Bland-Altman plots illustrating the agreement between the damage parameters evaluated in peripheral blood lymphocytes (PBLs; gold standard test) and those evaluated in whole capillary blood leukocytes (WCBLs).



Table S1. Yield, viability, and cell diameter of peripheral blood lymphocytes (PBLs) and buccal lymphocytes (BLs).

	PBLs	BLs
Yield ($\times 10^5/\text{mL}$) ¹	37.5 ± 5.9	4.9 ± 1.3
Viability (%) ¹	97.3 ± 0.3	77.8 ± 0.9
Cell diameter (μm) ¹	12.6 ± 0.4	11.33 ± 0.2

¹ Group mean \pm standard error of the mean.



Table S2. Bland-Altman analysis: DNA parameters (comet assay) evaluated in peripheral blood lymphocytes (PBLs); buccal lymphocytes (BLs); whole venous blood leukocytes (WVBLs); whole capillary blood leukocytes (WCBLs).

Differences	PBLs vs BLs			PBLs vs WVBLs			PBLs vs WCBLs		
	TL	TI	TM	TL	TI	TM	TL	TI	TM
Arithmetic mean (Bias)	-6.36	-2.73	-0.41	-1.32	-0.37	-0.04	-1.44	-0.89	-0.09
95% CI	[-8.23; -4.49]	[-2.73; -3.56]	[-0.57; -0.26]	[-1.68; -0.96]	[-0.57; -0.17]	[-0.06; -0.01]	[-2.46; -0.43]	[-1.28; -0.49]	-0.05
Standard Error	0.87	0.39	0.07	0.17	0.10	0.01	0.47	0.18	0.02
Minimum	-11.38	-5.36	-0.94	-2.44	-0.77	-0.09	-6.07	-2.21	-0.20
Maximum	-1.63	-0.63	-0.13	-0.41	0.47	0.04	0.81	-0.08	-0.01
Standard deviation (Precision)	3.38	1.49	0.28	0.65	0.37	0.04	1.84	0.72	0.06
Lower limit	-12.98	-5.66	-0.97	-2.59	-1.09	-0.11	-5.04	-2.29	-0.21
Upper limit	0.26	0.19	0.14	-0.05	0.35	0.04	2.16	0.52	0.04

TL: tail length; TI: tail intensity; TM: tail moment

CI: confidence interval