

Supplementary SB. Tables

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**Table SB1.** A list of the tested samples along with their corresponding labels, used for the examination of each individual separately. Oleuropein samples (O) are in black and placebo (P) samples are in red. Baseline samples (Days “-1” and “0”) (light grey) were not considered in this step of MVA.

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
A		1	11	21	31	41	51	61	1B	11B	21B	31B	41B	51B	61B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
B		3	13	23	33	43	53	63	3B	13B	23B	33B	43B	53B	63B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
C		4	14	24	34	44	54	64	4B	14B	24B	34B	44B	54B	64B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
D		5	15	25	35	45	55	65	5B	15B	25B	35B	45B	55B	65B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
E		6	16	26	36	46	56	66	6B	16B	26B	36B	46B	56B	66B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
F		7	17	27	37	47	57	67	7B	17B	27B	37B	47B	57B	67B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
G		8	18	28	38	48	58	68	8B	18B	28B	38B	48B	58B	68B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
H		9	19	29	39	49	59	69	9B	19B	29B	39B	49B	59B	69B

Weeks		1 <sup>st</sup> week							2 <sup>nd</sup> week						
		Days							Days						
Subjects	Days	-1	0	1	2	3	4	5	-1	0	1	2	3	4	5
I		10	20	30	40	50	60	70	10B	20B	30B	40B	50B	60B	70B

**Table SB2.** ANOVA results for the significant metabolite M1.

Analysis of Variance (One-Way) Metabolite M1						
Summary						
Groups	Sample size	Sum	Mean	Variance		
O	18	15558222.91	864345.71722	3.73796E+11		
P	18	7690860.74	427270.04111	1.58347E+11		
ANOVA						
Source of Variation	SS	df	MS	F	p-level	F crit
Between Groups	1.71932E+12	1	1.71932E+12	6.46186	0.01575	4.13002
Within Groups	9.04643E+12	34	2.66071E+11			
Total	1.07657E+13	35				

**Table SB3.** ANOVA results for the significant metabolite M5.

Analysis of Variance (One-Way) Metabolite M5						
Summary						
Groups	Sample size	Sum	Mean	Variance		
O	18	6153587.153	341865.95294	1.68643E+11		
P	18	2147063.846	119281.32478	3.20009E+10		
ANOVA						
Source of Variation	SS	df	MS	F	p-level	F crit
Between Groups	4.45895E+11	1	4.45895E+11	4.44463	0.0426	4.13002
Within Groups	3.41095E+12	34	1.00322E+11			
Total	3.85685E+12	35				

**Table SB4.** ANOVA results for the significant metabolite M19.

Analysis of Variance (One-Way) Metabolite M19						
Summary						
Groups	Sample size	Sum	Mean	Variance		
O	18	33925758.693	1884764.37183	1.02931E+13		
P	18	623969.718	34664.98433	1016438443.15771		
ANOVA						
Source of Variation	SS	df	MS	F	p- level	F crit

Between Groups	3.08058E+13	1	3.08058E+13	5.98514	0.01975	4.1302
Within Groups	1.75E+14	34	5.14705E+12			
Total	2.05805E+14	35				

**Table SB5.** A list of the tested samples from the crossover study along with their corresponding labels. Baseline samples (B) are in green, oleuropein samples (O) are in black and placebo (P) samples are in red.

Weeks		1 <sup>st</sup> week							2 weeks wash out	2 <sup>nd</sup> week						
Subjects	Days	-1	0	1	2	3	4	5		-1	0	1	2	3	4	5
A		1	11	21	31	41	51	61		1B	11B	21B	31B	41B	51B	61B
B		3	13	23	33	43	53	63		3B	13B	23B	33B	43B	53B	63B
C		4	14	24	34	44	54	64		4B	14B	24B	34B	44B	54B	64B
D		5	15	25	35	45	55	65		5B	15B	25B	35B	45B	55B	65B
E		6	16	26	36	46	56	66		6B	16B	26B	36B	46B	56B	66B
F		7	17	27	37	47	57	67		7B	17B	27B	37B	47B	57B	67B
G		8	18	28	38	48	58	68		8B	18B	28B	38B	48B	58B	68B
H		9	19	29	39	49	59	69		9B	19B	29B	39B	49B	59B	69B
I		10	20	30	40	50	60	70	10B	20B	30B	40B	50B	60B	70B	