Supplementary material

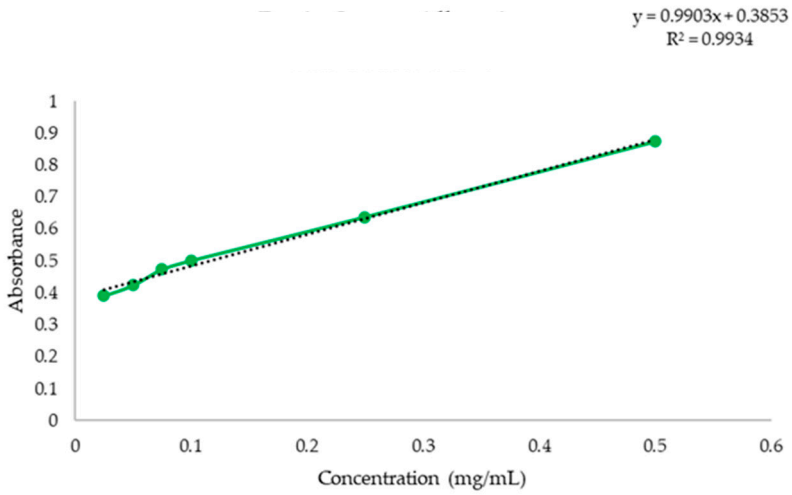

Figure S1: Calibration curve for bovine serum albumin for protein content.

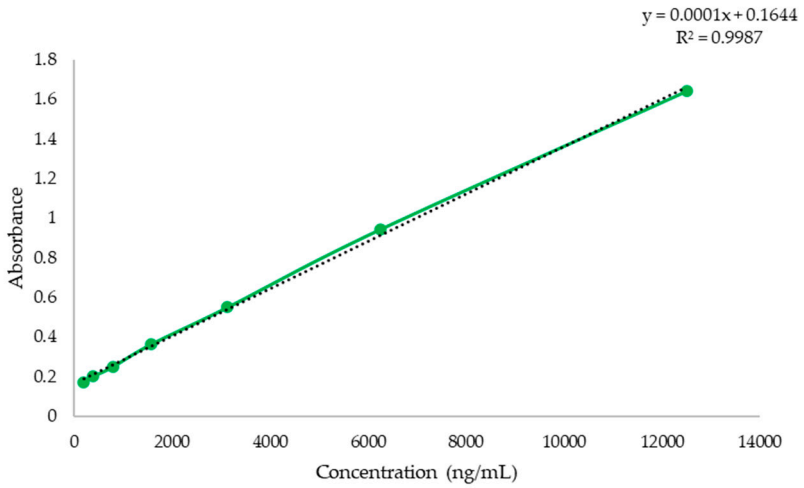

Figure S2: Calibration curve for BCL-2.

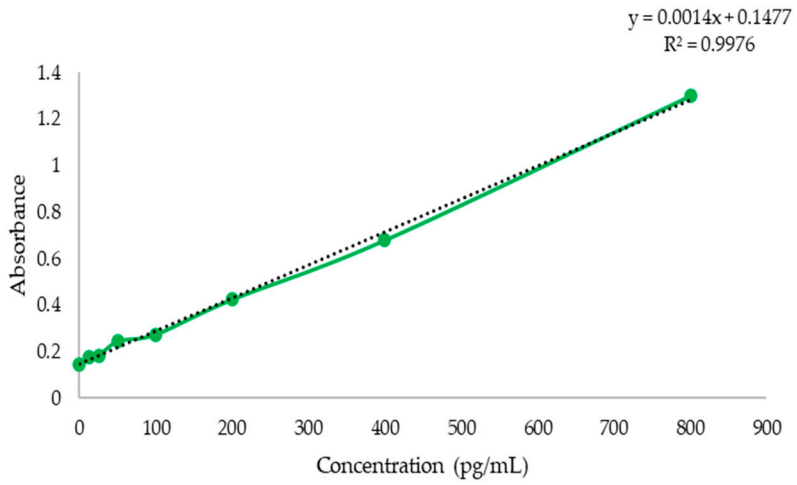

Figure S3: Calibration curve for BAX.

Table S1: Standards used for the identification of phenolic compounds in olive mill waste extracts.

		Standards					
Compound	RRT	Regression Equation	R^2	Range μg/ml	LOD μg/ml	LOQ μg/ml	% Recovery
5,7- dihydroxy flavone	3.78	y = 6343x + 71.913	0.9969	0.5-20	0.35	0.80	95.33
Quercetin	3.05	y = 68130x - 133639	0.9983	0.5-20	0.39	1.19	94.31
3',4,5,7-tetreahydroxy flavone	2.96	y = 82255x - 289662	0.9985	0.5-20	0.42	1.27	86.73
Ligstorside	2.92	y = 17918x – 2974.1	0.9996	0.5-20	0.31	0.93	86.43
Oleocanthal	2.94	y = 2384.5x – 845.48	0.9980	0.5-20	0.10	0.71	85.44
Oleuoside	2.85	y = 4579x – 3169.1	0.9973	0.5-20	0.15	0.45	92.87
Oleuropein	2.69	y = 14833x - 5282.3	0.9993	0.5-20	0.14	0.35	96.88
Oleacein	2.54	y = 2641.1x – 700.45	0.9997	0.5-20	1.56	2.16	93.30
Salicylic acid	2.44	y = 12405x + 9607	1.000	0.5-20	0.21	1.07	85.18
Apigenin 7-glucoside	2.41	y = 26819x - 23144	0.9977	0.5-20	0.52	1.69	94.92
Luteolin 7-glucoside	2.34	y = 20573x – 7756.4	0.9989	0.5-20	0.52	1.57	90.33
Ellagic acid	2.22	y = 105392x - 18766	0.9998	0.5-20	0.17	0.52	90.50
2-hydroxy-cinnamic acid (trans)	2.19	y = 142725x - 13588	0.9996	0.5-20	0.19	0.71	93.13
Ferulic acid	1.91	y = 29993x - 6501.2	0.9997	0.5-20	0.28	0.86	86.75
3-methoxy-4-hydroxy cinnamic acid	1.78	y = 65581x - 16482	0.9999	0.5-20	0.17	0.51	89.78
p-coumaric acid	1.44	y = 85755x - 34844	0.9996	0.5-50	0.32	0.98	89.94
Vanillin	1.22	y = 117082x - 469630	0.9973	0.5-20	0.10	0.30	89.45
2,4 dihydroxy benzoic acid	0.82	y = 28900x - 20637	0.9988	0.5-20	0.48	1.15	96.75
Vanillic acid	0.78	y = 49621x - 52631	0.9931	0.5-20	0.45	1.12	88.49
Catechin	0.66	y = 5883.3x - 15172	0.9944	0.5-20	0.88	2.65	90.57
4-hydroxy-benzoic acid	0.54	y = 40721x + 91209	0.9994	0.5-20	0.40	1.23	98.88
2-(-4- hydroxy phenyl) ethanol	0.51	y = 28088x + 75468	1.000	0.5-100	0.37	1.13	99.99
3 Hydroxytyrosol	0.31	y = 20898x – 4825.5	0.9996	0.5-200	0.26	0.78	90.16
Gallic Acid	0.26	y = 30973x - 13376	0.9976	0.5-20	0.12	0.45	98.46

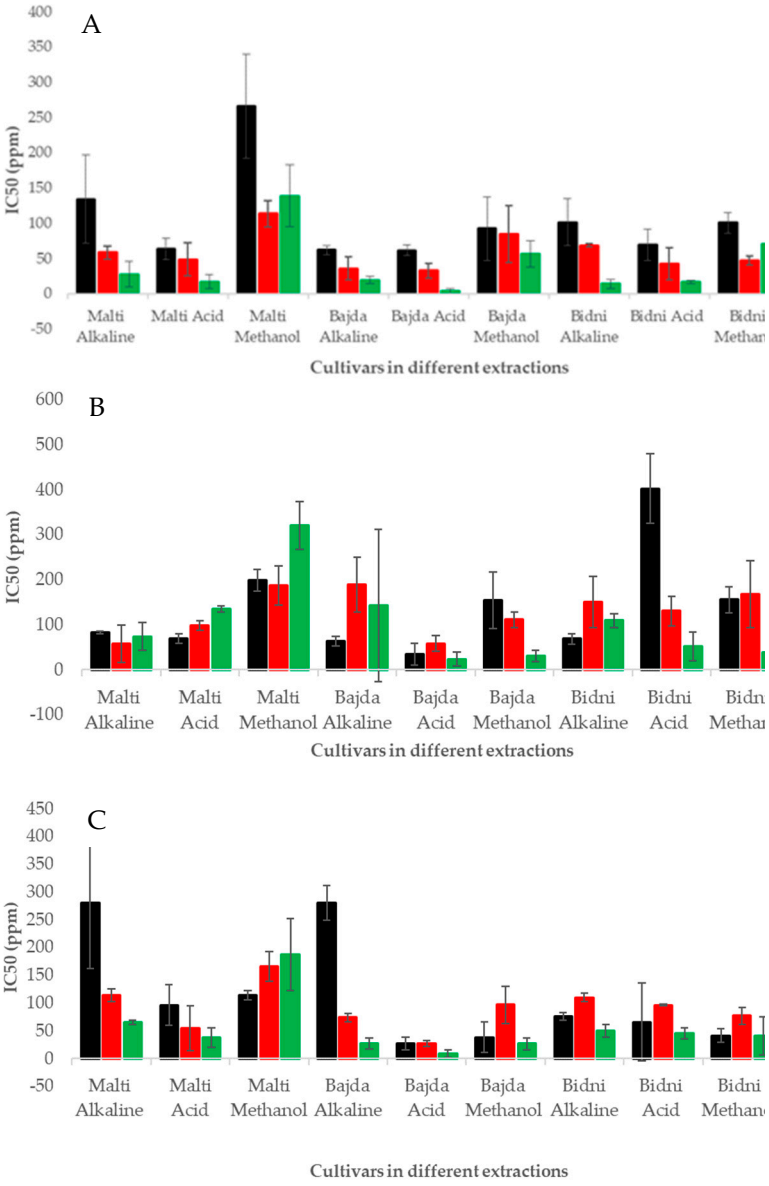

Figure S4: IC_{50}'s of (A) NB4r2, (B) HL-60 and (C) KG-1a cell lines treated with olive mill waste extracts at 24 (black), 48 (red) and 72 (green) h of exposure.

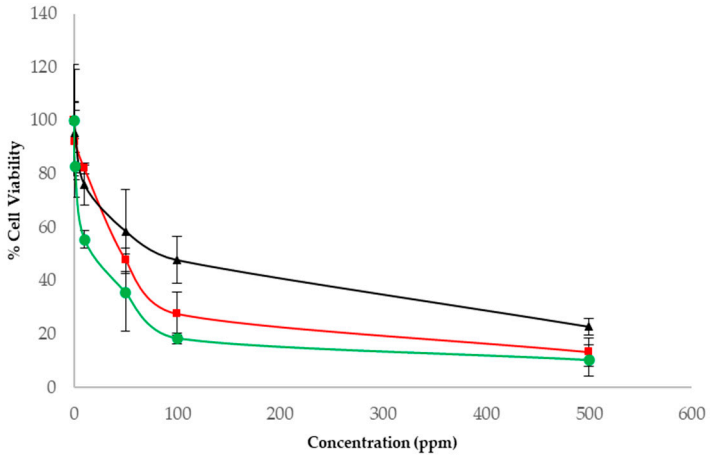

Figure S5: The percentage cell viability against concentration graph of 'Bajda' cultivar acid (red), methanol (black) and alkaline (green) extraction on NB4r2 cell line at 48 hours of exposure.

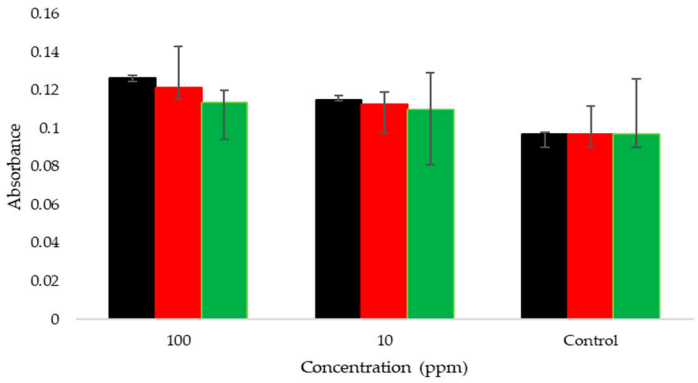

Figure S6: Caspase-3 activity on KG-1a cell lines after 24 h of exposure using different concentrations (100 and 10 ppm) for 'Bidni' (black), 'Bajda' (red) and 'Malti' (green) extracts with the addition of a control.

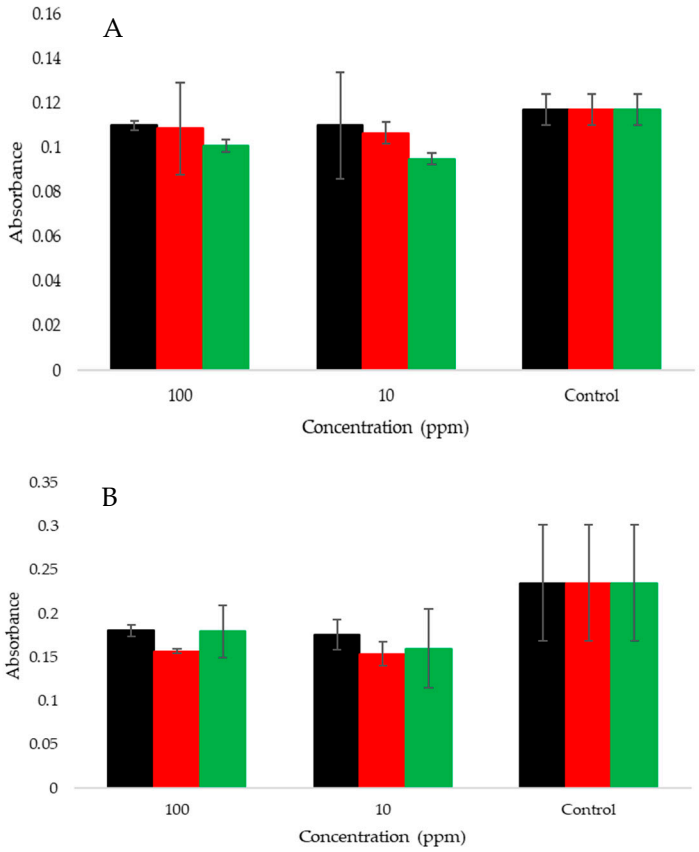

Figure S7: BCL-2 content on KG-1a cell lines after 24 hours (A) and 48 hours (B) of exposure using different concentrations for 'Bidni' (black), 'Bajda' (red) and 'Malti' (green) extracts with the addition of a control.

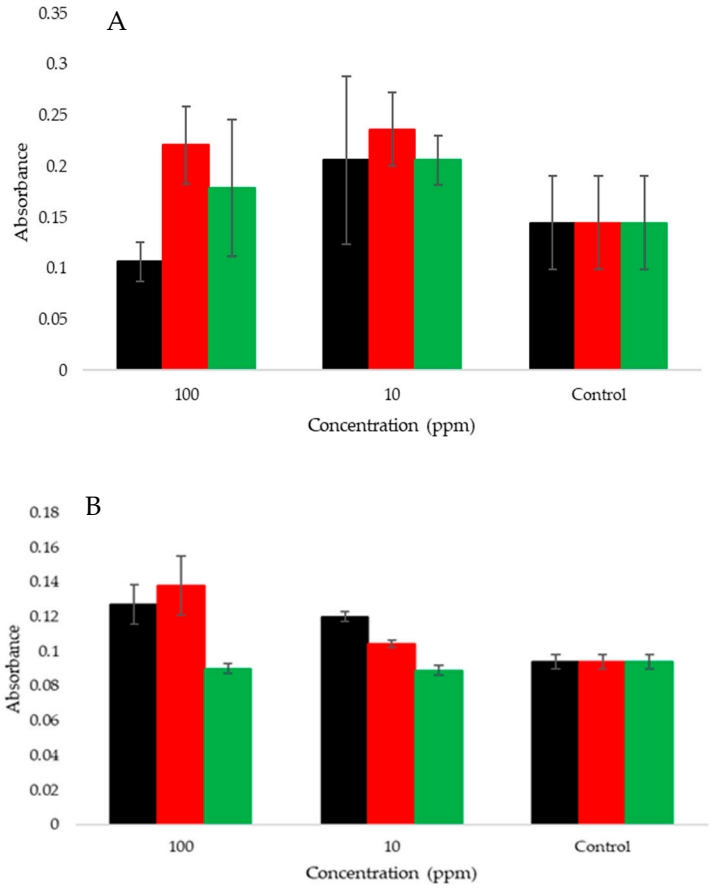

Figure S8: BAX content on KG-1a cell lines after 24 hours (A) and 48 hours (B) of exposure using different concentrations for 'Bidni' (black), 'Bajda' (red) and 'Malti' (green) extracts with the addition of a control.

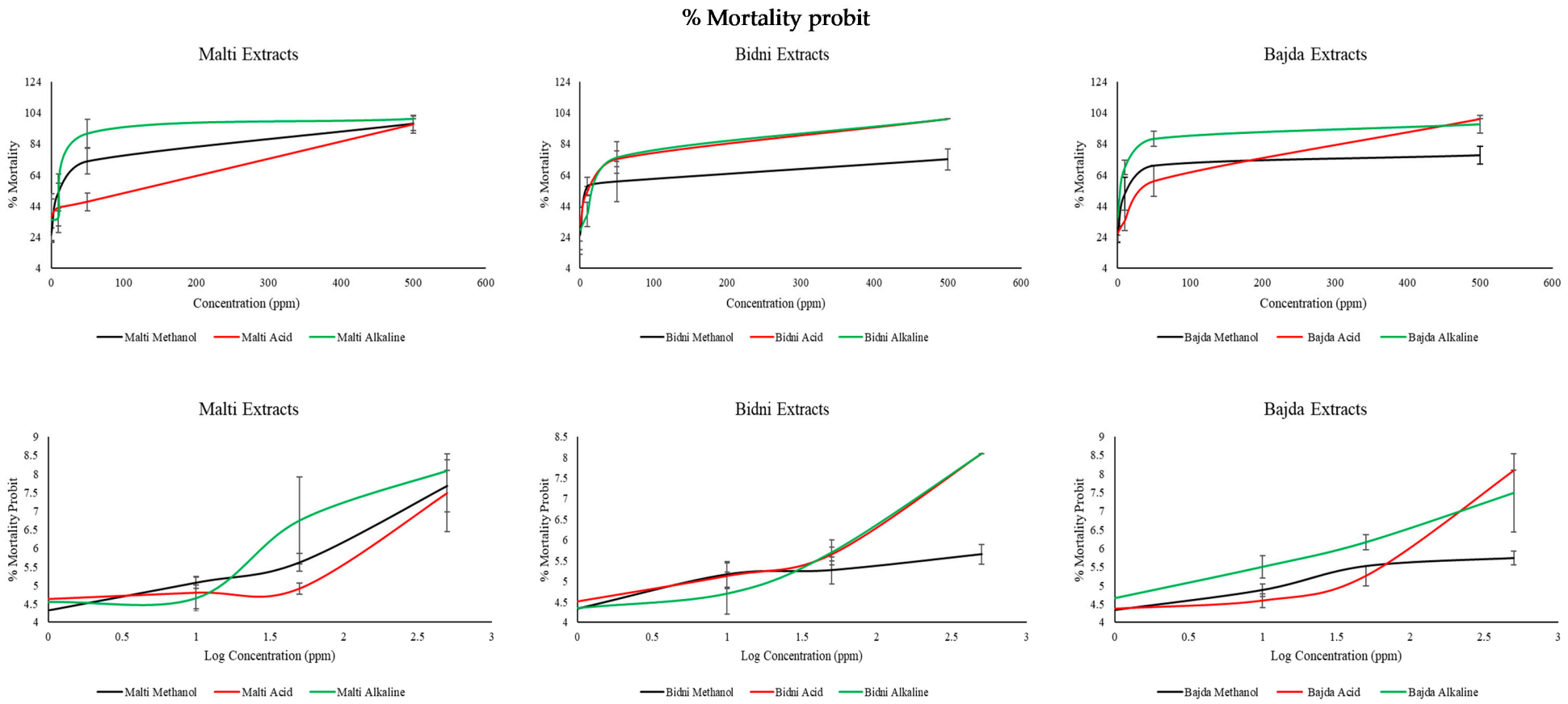

Figure S9: The percentage mortality probit of olive mill waste extracts at different extraction procedures.

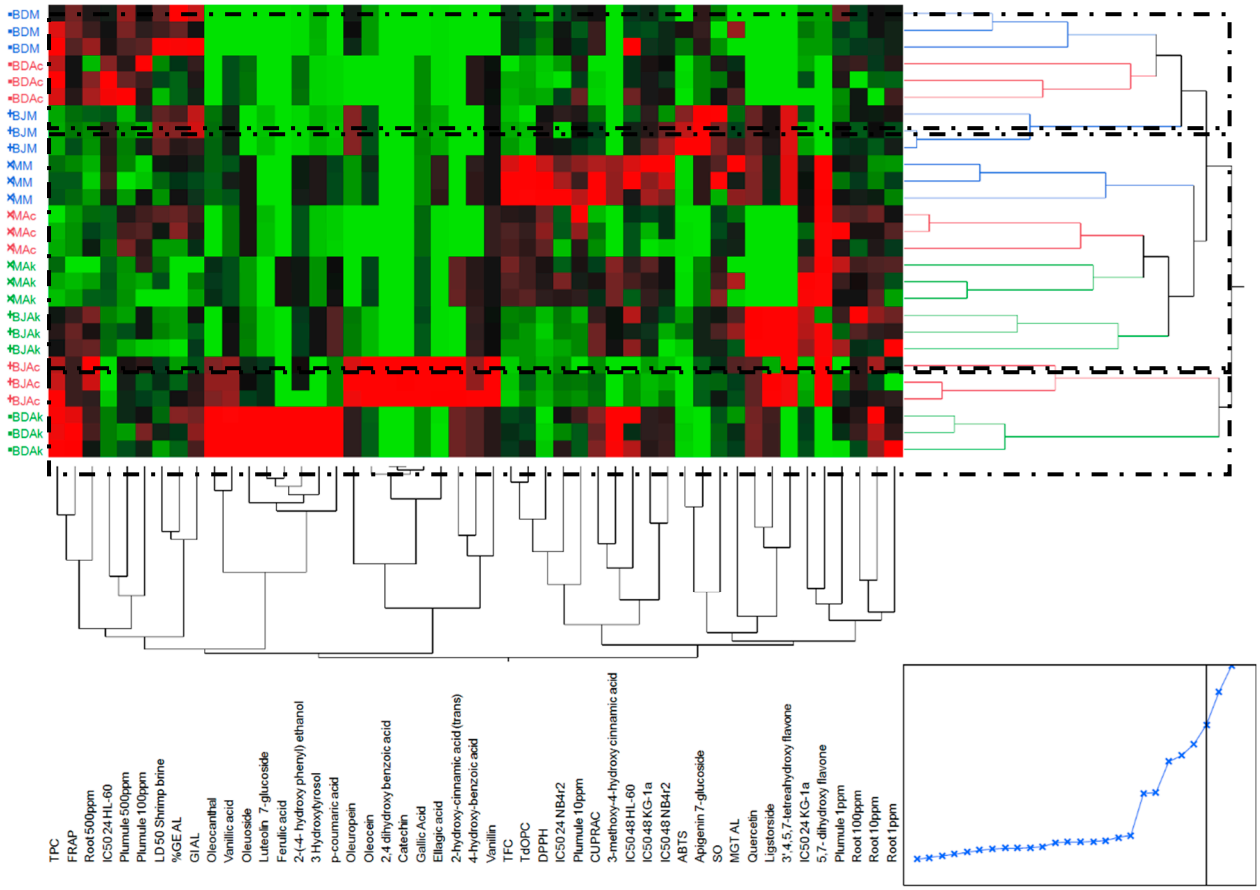

Figure S10: Two-way cluster analysis, utilizing Ward's method, reveals three distinct clusters with 'Bidni' extracts dominating the first cluster's biochemical profile.