

Supplementary Materials

The anticancer and antioxidant effects of muscadine grape extracts on racially different triple-negative breast cancer cells

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Online Resource 1: Muscadine grape population used for evaluation of nutraceutical properties.

Codes	Genotypes	Color	TPC	TFC	DPPH	MDA-MB-231	MDA-MB-468
1	O36-12-1	BR	59.6±0.09	20.3±0.01	31.1±0.01	19.4±3.08	39.9±2.14
2	O43-16-1	BR	145.0±0.25	30.0±0.01	38.4±0.03	74.5±4.79	83.0±2.25
3	O35-21-1	BR	107.3±0.23	27.6±0.01	36.3±0.01	36.6±3.56	60.1±2.49
4	C10-10-1	BR	139.9±0.11	51.7±0.03	36.1±0.02	40.8±2.95	66.4±1.72
5	O35-14-1	BR	139.1±0.31	41.6±0.03	52.3±0.01	35.3±7.78	68.3±3.79
6	O41-5-1	BR	104.3±0.38	53.4±0.02	45.2±0.01	36.8±5.35	77.8±4.08
7	C11-6-1	B	51.5±0.12	34.6±0.03	25.2±0.01	17.9±1.74	9.3±6.10
8	O34-22-1	B	78.1±0.14	38.6±0.01	35.0±0.01	20.8±2.01	37.9±2.67
9	O34-21-3	B	169.0±0.05	84.7±0.03	43.8±0.02	78.6±3.02	61.5±3.46
10	B20-15-2	BR	30.8±0.08	22.8±0.03	16.6±0.01	4.8±2.35	2.9±2.84
11	O41-11-2	BR	25.7±0.05	47.0±0.01	15.6±0.02	2.7±2.54	1.0±2.10
12	O42-3-1	BR	53.7±0.06	45.1±0.01	23.0±0.03	15.2±1.86	8.4±6.76
13	O43-1-1	BR	152.5±0.03	42.4±0.02	51.6±0.02	51.9±1.70	71.2±1.71
14	O40-15-1	B	73.2±0.16	39.9±0.03	35.0±0.01	22.7±2.59	51.8±5.98
15	O41-3-1	R	143.9±0.19	57.8±0.02	42.1±0.03	51.9±4.18	90.7±1.05
16	B25-17-2	BR	29.2±0.10	37.8±0.01	17.7±0.04	3.6±2.47	0.4±2.15
17	B30-9-1	B	29.0±0.04	34.2±0.01	17.1±0.01	0.3±2.32	1.1±1.06
18	B25-15-1	BR	25.0±0.05	22.8±0.03	16.4±0.03	3.4±1.98	1.0±0.73
19	O41-19-1	BR	68.6±0.12	32.3±0.02	41.2±0.03	22.3±1.83	52.8±3.39
20	O41-2-1	B	41.4±0.03	32.6±0.02	26.4±0.01	11.0±2.18	0.6±1.33
21	B25-13-1	BR	25.9±0.10	26.9±0.03	20.7±0.04	6.3±2.97	0.4±1.55
22	B30-6-1	R	35.5±0.02	42.5±0.05	13.2±0.01	0.7±1.81	14.0±4.42
23	O40-20-1	BR	49.2±0.06	43.8±0.02	28.4±0.04	18.2±1.53	34.6±2.23
24	B25-14-1	BR	26.1±0.07	35.1±0.03	14.3±0.03	4.4±1.67	0.3±1.66
25	O42-21-1	R	40.6±0.11	35.0±0.02	20.7±0.04	5.2±2.56	1.4±2.54
26	O36-3-2	BR	26.4±0.06	20.8±0.01	22.9±0.05	13.0±3.56	4.8±1.42
27	O44-16-1	BR	42.5±0.08	97.8±0.04	21.5±0.04	11.1±1.98	17.3±3.49
28	O15-16-1	R	81.1±0.25	85.6±0.05	41.4±0.07	25.4±1.42	29.7±3.29
29	O15-17-1	B	104.3±0.23	91.0±0.07	45.7±0.01	27.7±4.90	38.5±4.99
30	O16-10-1	G	101.8±0.11	94.9±0.01	46.9±0.03	35.8±1.80	36.4±2.27
31	O37-14-1	B	61.3±0.06	49.0±0.04	29.0±0.03	15.9±1.10	12.9±2.18
32	O43-15-1	BR	106.8±0.06	21.3±0.01	43.8±0.03	52.9±2.00	53.7±2.84
33	O16-5-1	R	125.7±0.09	34.8±0.02	51.4±0.01	60.7±2.33	55.4±1.34
34	O21-2-2	B	88.4±0.13	20.7±0.06	46.1±0.04	51.6±1.67	44.0±2.37
35	O36-22-1	BR	49.4±0.05	18.7±0.08	25.0±0.03	40.2±3.68	26.6±1.27
36	O22-12-2	B	65.8±0.07	25.6±0.03	39.2±0.01	47.6±2.43	26.3±4.08
37	O22-13-3	BR	76.6±0.10	27.0±0.01	36.5±0.01	26.9±1.37	43.7±7.83

38	O21-1-1	BR	36.3±0.05	19.7±0.01	20.9±0.04	25.5±3.04	8.9±4.37
39	O44-14-1	BR	60.0±0.27	22.1±0.04	28.3±0.01	33.1±0.45	24.0±2.79
40	O36-3-1	BR	51.0±0.14	18.8±0.01	24.0±0.01	29.2±3.70	25.8±2.41
41	O16-2-1	B	97.4±0.10	35.0±0.01	36.0±0.03	30.5±3.99	36.2±3.44
42	O16-9-1	B	124.7±0.17	45.8±0.02	56.9±0.04	57.9±2.90	49.9±2.61
43	O13-13-1	B	54.7±0.03	43.3±0.04	22.5±0.01	22.8±2.52	13.2±1.23
44	O15-12-4	BR	95.3±0.05	41.1±0.01	43.8±0.01	56.8±9.81	29.1±1.98
45	D7-16-1	B	124.2±0.32	24.2±0.03	39.2±0.01	75.0±2.07	74.0±3.96
46	B30-13-1	B	46.0±0.02	41.2±0.05	17.1±0.01	6.2±2.08	9.1±1.82
47	B28-14-1	B	36.6±0.06	34.1±0.01	17.0±0.02	23.8±2.95	17.2±3.66
48	O40-21-1	R	51.9±0.06	15.9±0.04	27.2±0.01	44.1±2.86	23.9±1.90
49	O41-16-1	BR	60.0±0.15	20.3±0.01	24.3±0.01	23.6±1.77	37.9±3.65
50	B30-7-1	R	45.8±0.01	19.0±0.04	16.6±0.02	3.3±0.75	56.9±2.16
51	A14-13-1	B	66.6±0.09	27.0±0.01	26.0±0.01	30.3±1.11	47.4±2.93
52	B30-17-1	B	64.2±0.06	56.8±0.01	16.6±0.01	3.9±0.86	13.0±1.84
53	D6-5-1	B	50.7±0.05	28.7±0.01	25.4±0.01	21.4±1.13	11.0±1.18
54	B28-18-1	B	45.8±0.01	30.8±0.02	18.4±0.03	14.1±1.24	46.3±4.06
55	D7-9-1	BR	55.9±0.07	23.4±0.02	22.6±0.01	24.6±1.33	66.2±2.46
56	B28-18-2	B	42.2±0.06	30.4±0.02	12.8±0.03	13.6±0.78	60.1±2.25
57	A13-7-1	B	60.0±0.09	32.1±0.01	26.4±0.03	17.3±1.39	26.3±3.58
58	B28-17-1	B	46.6±0.03	34.4±0.01	14.9±0.03	5.4±1.86	32.8±3.78
59	A14-14-1	B	95.1±0.40	23.6±0.01	30.5±0.01	36.0±3.22	67.3±3.92
60	A26-14-1	BR	81.1±0.27	25.9±0.01	24.7±0.01	29.4±1.02	48.2±4.47
61	A27-2-2	BR	65.1±0.21	23.0±0.03	28.8±0.04	29.1±1.72	45.2±3.13
62	B12-20-2	B	57.3±0.11	40.4±0.03	17.9±0.02	5.6±1.03	11.2±1.90
63	A13-12-2	BR	54.7±0.18	20.0±0.06	30.3±0.01	20.2±1.60	20.1±2.39
64	B26-5-1	B	35.2±0.01	27.4±0.01	11.9±0.04	1.0±1.76	15.4±2.98
65	C12-10-1	BR	51.7±0.33	20.0±0.03	28.8±0.02	34.6±2.12	50.3±5.40
66	C12-9-1	B	40.1±0.01	24.2±0.04	25.2±0.03	26.8±1.82	2.2±4.11
67	C12-7-1	B	45.2±0.14	25.5±0.01	28.0±0.01	32.6±3.08	20.8±2.91
68	A27-4-2	BR	65.4±0.11	22.5±0.01	35.7±0.03	45.1±2.89	49.0±1.52
69	C13-11-1	BR	59.7±0.12	19.5±0.01	25.9±0.01	44.3±2.22	40.0±3.45
70	C13-10-1	BR	47.2±0.14	16.6±0.02	26.4±0.01	26.8±3.99	26.0±3.02
71	A26-14-2	BR	62.2±0.23	17.4±0.01	32.7±0.01	37.8±1.93	44.4±1.56
72	C12-8-2	B	36.7±0.01	31.2±0.01	26.1±0.03	23.3±2.35	6.1±2.11
73	A20-5-1	BR	62.7±0.17	19.9±0.02	34.1±0.01	48.6±2.72	41.7±2.41
74	A22-4-1	B	82.2±0.12	35.1±0.04	22.4±0.04	50.0±3.30	80.0±2.44
75	C13-14-1	BR	37.6±0.08	16.9±0.06	20.9±0.01	40.9±3.14	24.8±1.53
76	C13-9-2	BR	42.5±0.03	18.0±0.03	21.2±0.03	29.9±2.82	12.0±4.41
77	A18-15-2	BR	74.0±0.07	25.0±0.03	36.1±0.01	57.8±4.02	37.6±1.95

78	C13-1-2	B	48.4±0.05	30.4±0.02	26.0±0.01	31.8±2.95	20.8±2.84
79	C13-9-1	BR	36.8±0.03	18.3±0.01	21.2±0.05	22.3±4.03	4.0±3.90
80	C12-9-2	B	47.9±0.05	28.5±0.01	26.5±0.02	32.0±1.68	3.6±4.02
81	A27-4-1	BR	47.9±0.18	20.5±0.01	26.0±0.03	17.3±2.40	15.3±6.53
82	C13-15-2	BR	32.7±0.06	21.4±0.01	24.8±0.03	14.8±0.55	13.0±2.42
83	C13-16-2	BR	52.9±0.06	22.6±0.01	26.5±0.04	19.2±0.86	21.6±2.39
84	A18-8-2	BR	50.2±0.10	23.2±0.01	31.6±0.01	19.4±2.49	26.8±3.45
85	E16-7-2	BR	43.4±0.05	16.5±0.01	18.8±0.02	11.6±1.38	19.4±1.60
86	E16-9-2	B	50.3±0.08	28.7±0.05	26.6±0.01	42.4±4.37	19.9±2.86
87	E16-9-1	B	35.1±0.02	25.6±0.01	21.5±0.04	10.9±1.48	9.4±0.87
88	A26-16-1	BR	41.7±0.09	18.9±0.03	20.1±0.01	7.4±0.93	21.4±1.21
89	A19-13-8	B	103.0±0.32	26.1±0.01	36.1±0.01	74.9±3.34	49.4±2.24
90	C4-11-1	B	57.7±0.04	27.0±0.03	27.3±0.01	17.7±1.62	30.1±1.51
91	C5-13-1	BR	30.3±0.11	18.2±0.03	15.8±0.05	5.4±1.33	8.8±1.93
92	C5-10-1	B	115.9±0.31	28.3±0.02	47.8±0.01	50.8±1.57	55.8±1.99
93	E16-3-1	B	62.4±0.11	21.7±0.01	30.7±0.04	14.3±0.90	27.9±2.09
94	O18-9-1	BR	25.7±0.10	19.2±0.05	14.5±0.04	9.0±1.92	20.3±0.91
95	Carlos	BR	45.3±0.08	24.8±0.04	20.7±0.02	16.9±2.54	42.3±4.72
96	C4-15-2	BR	58.3±0.15	15.7±0.01	26.4±0.04	33.6±2.15	40.2±4.31
97	C5-13-2	BR	29.0±0.07	16.9±0.01	13.9±0.01	0.4±1.21	19.9±0.81
98	C5-12-1	BR	27.1±0.03	18.2±0.01	11.9±0.01	2.8±0.90	19.2±0.81
99	E15-10-1	B	61.7±0.08	18.2±0.03	21.3±0.01	17.8±0.97	30.7±2.39
100	Sweet Jenny	BR	57.8±0.20	23.7±0.01	28.6±0.02	32.2±3.54	46.8±4.12
101	O17-18-1	B	65.0±0.06	20.6±0.01	31.4±0.01	15.8±1.59	39.2±2.48
102	C5-15-1	B	66.4±0.11	19.6±0.02	32.0±0.03	20.6±1.63	32.2±3.68
103	C5-16-1	B	39.1±0.04	23.2±0.01	19.6±0.01	9.6±1.02	17.3±0.50
104	C5-17-1	B	45.1±0.04	22.1±0.02	23.2±0.02	10.4±0.80	16.2±1.43
105	C5-17-2	B	44.4±0.14	23.6±0.02	13.2±0.01	12.3±0.99	17.3±2.42
106	O17-19-1	B	47.5±0.03	21.3±0.04	22.6±0.02	14.6±2.23	18.0±0.82
107	O18-17-1	BR	46.8±0.11	18.8±0.02	20.3±0.01	13.2±1.59	17.0±1.62
108	Watergate	BR	34.1±0.10	22.8±0.02	16.9±0.03	10.7±2.55	10.8±4.59
109	Welder	BR	37.4±0.05	20.8±0.03	19.4±0.01	12.1±2.08	13.9±1.79
110	O24-19-2	B	14.7±0.02	18.7±0.01	7.1±0.01	7.1±1.09	0.8±0.97
111	E16-13-1	BR	23.7±0.09	20.5±0.02	13.4±0.02	7.3±1.55	14.9±1.42
112	E16-10-1	B	45.7±0.07	30.7±0.01	23.0±0.03	15.6±1.56	15.3±1.09
113	Supreme	R	25.5±0.08	18.8±0.04	16.9±0.02	8.4±1.66	14.7±2.24
114	O22-8-2	B	54.6±0.24	42.5±0.04	23.2±0.01	16.2±3.97	1.8±9.75
115	O17-16-2	B	41.9±0.13	19.3±0.01	23.7±0.01	14.8±2.21	20.3±2.03
116	Black Beauty	B	35.7±0.05	16.5±0.01	18.6±0.02	1.0±1.04	14.8±0.86
117	Alachua	B	31.6±0.05	22.7±0.01	19.2±0.01	1.1±1.12	13.7±1.09

118	O18-2-1	B	74.0±0.14	19.7±0.02	27.9±0.01	5.1±0.96	17.0±2.59
119	O19-13-2	B	66.8±0.16	22.3±0.01	28.8±0.04	1.9±2.67	15.2±5.81
120	O18-1-2	B	152.5±0.11	24.2±0.02	47.4±0.03	26.3±1.79	76.6±0.87
121	B25-1-1	R	43.7±0.08	14.9±0.01	24.1±0.03	0.4±2.11	16.0±1.09
122	O18-14-2	B	72.9±0.04	20.9±0.01	29.2±0.01	2.3±1.41	30.6±1.67
123	O41-21-1	B	60.3±0.11	33.7±0.01	26.5±0.03	2.6±2.71	13.7±1.08
124	O24-1-2	B	90.1±0.15	23.0±0.03	38.0±0.02	5.0±1.91	26.3±2.86
125	O17-16-2	R	63.7±0.19	17.2±0.01	27.5±0.01	0.7±1.69	15.0±3.64
126	O17-15-1	B	53.5±0.07	20.3±0.01	25.2±0.03	0.8±1.21	16.8±1.49
127	Onyx	B	34.5±0.09	19.4±0.01	14.9±0.02	7.6±1.16	13.4±1.57
128	Nobel	B	59.9±0.12	30.0±0.03	29.9±0.01	54.3±3.26	29.3±1.30
129	Summit	BR	41.1±0.04	21.1±0.02	21.5±0.01	0.9±1.42	13.8±0.74
130	O21-13-1	B	58.8±0.10	25.4±0.01	21.6±0.02	0.0±1.89	11.7±1.27
131	O21-11-2	B	39.8±0.05	17.7±0.03	16.9±0.02	13.0±1.04	22.3±2.25
132	O21-3-1	B	49.2±0.08	16.6±0.06	26.4±0.03	17.8±1.42	26.1±3.28
133	Majesty	B	53.8±0.13	15.7±0.01	18.1±0.02	17.9±1.42	33.0±4.20
134	O19-14-1	B	33.6±0.08	17.6±0.01	16.7±0.05	9.0±1.90	14.2±1.75
135	Floriana	B	83.9±0.11	30.9±0.03	34.6±0.04	58.7±3.13	28.7±3.36
136	C1-7-1	R	49.2±0.07	17.1±0.01	26.2±0.01	21.1±0.93	42.9±0.98
137	D6-8-2	BR	20.4±0.05	17.6±0.03	15.1±0.03	3.6±1.42	18.6±1.17
138	D7-1-1	R	61.0±0.10	27.2±0.03	23.9±0.02	15.4±2.44	48.2±6.63
139	Sugargate	B	33.1±0.03	19.8±0.01	14.7±0.01	6.8±1.08	8.8±1.14
140	O28-4-2	BR	71.6±0.20	23.7±0.01	28.4±0.04	24.4±2.61	50.9±3.24
141	Scarlet	BR	62.8±0.05	25.4±0.03	29.2±0.06	27.4±1.20	32.1±2.24
142	Scuperong	BR	35.7±0.02	23.3±0.01	15.8±0.01	13.6±0.91	11.0±1.17
143	Rosa	R	72.2±0.13	22.2±0.01	30.5±0.03	23.8±0.83	28.9±1.09
144	O28-8-2	B	33.5±0.02	18.1±0.03	18.4±0.06	6.7±1.30	8.4±1.56
145	O25-1-2	BR	53.9±0.22	15.7±0.02	32.0±0.01	21.9±2.29	20.8±5.32
146	O28-9-2	BR	67.7±0.18	17.8±0.01	32.4±0.01	26.3±3.10	35.8±7.07
147	Sugarpop	BR	49.7±0.04	17.2±0.03	22.2±0.03	16.8±1.79	29.9±3.79
148	C1-1-1	BR	47.1±0.13	18.1±0.04	23.9±0.03	14.1±2.54	18.5±3.59
149	C8-6-2	BR	88.0±0.09	21.2±0.02	28.8±0.02	27.1±2.42	52.1±1.98
150	C7-3-1	R	40.2±0.02	17.4±0.08	25.2±0.02	19.9±2.29	16.1±1.23
151	C11-2-1	B	74.0±0.05	33.9±0.03	37.8±0.01	24.3±1.83	18.0±1.48
152	B20-18-2	B	62.9±0.05	26.4±0.04	31.4±0.01	15.4±1.64	33.8±2.52
153	C10-11-2	BR	97.4±0.22	24.8±0.04	30.3±0.04	29.9±2.93	58.7±3.27
154	C-9-13-2	B	44.3±0.26	16.4±0.03	24.1±0.01	19.3±1.82	12.2±4.92
155	C8-11-2	R	33.2±0.17	18.8±0.02	21.8±0.01	19.7±2.55	15.3±3.30
156	C8-12-1	R	24.1±0.05	17.4±0.01	17.7±0.01	15.0±1.58	8.7±0.69
157	C10-11-1	BR	99.3±0.13	26.0±0.03	31.4±0.05	34.8±3.28	61.3±3.65

158	O15-11-1	R	108.3±0.04	38.8±0.02	47.4±0.01	33.9±1.38	39.1±1.32
159	C10-9-2	BR	82.5±0.26	25.4±0.02	27.7±0.01	28.9±3.19	53.1±5.02
160	C8-11-1	R	24.0±0.03	20.9±0.04	16.7±0.03	13.0±1.82	9.2±0.97
161	B20-15-1	BR	44.1±0.05	22.2±0.01	18.6±0.03	11.9±1.51	16.8±2.08
162	C11-1-1	B	77.8±0.05	37.2±0.03	34.6±0.03	20.9±1.48	23.3±1.21
163	C7-4-1	R	39.0±0.01	15.2±0.01	17.5±0.01	13.1±1.71	18.8±1.14
164	C11-6-2	B	24.7±0.06	16.1±0.01	13.4±0.02	7.3±1.15	13.8±0.97
165	C9-12-2	R	71.9±0.09	24.9±0.01	26.9±0.01	13.0±1.61	27.6±2.86
166	C11-7-2	R	36.7±0.08	16.2±0.02	15.8±0.01	10.9±2.28	16.7±0.62
167	C10-8-1	BR	106.8±0.23	22.8±0.03	28.0±0.03	30.0±5.00	74.7±4.13
168	C8-13-1	R	31.4±0.02	20.3±0.02	18.8±0.01	10.7±1.86	14.0±1.08
169	C8-6-1	G	103.2±0.35	28.6±0.01	27.1±0.05	12.2±2.97	31.6±2.90
170	C8-7-1	G	137.9±0.10	24.7±0.01	32.0±0.01	49.2±2.45	73.3±1.53
171	C11-2-2	G	73.9±0.04	29.7±0.08	31.8±0.01	26.8±1.75	23.2±0.72
172	C10-9-1	BR	106.9±0.13	28.1±0.06	27.1±0.04	44.3±4.54	61.8±3.37
173	C11-3-1	B	64.7±0.07	31.8±0.01	32.0±0.03	20.2±1.97	19.3±1.08
174	A12-9-1	B	61.2±0.02	24.6±0.01	28.8±0.03	18.4±1.12	19.4±0.97
175	C11-7-1	R	27.4±0.02	14.9±0.01	11.7±0.03	5.1±1.13	10.6±0.77
176	A12-10-2	G	55.3±0.04	29.2±0.01	30.5±0.03	15.3±0.99	18.1±0.92
177	C8-9-1	BR	47.3±0.02	20.5±0.04	23.7±0.02	8.3±1.22	20.1±1.78
178	C11-3-2	B	74.6±0.04	35.2±0.03	34.3±0.01	24.6±0.77	26.2±0.86
179	A30-15-2	R	44.6±0.01	25.1±0.01	19.6±0.03	3.8±0.92	19.1±0.75
180	A16-7-2	R	63.6±0.28	22.8±0.01	23.9±0.04	1.0±1.74	37.0±4.55
181	A30-14-2	BR	55.8±0.05	22.4±0.01	22.2±0.01	1.1±1.11	12.9±0.63
182	C6-4-2	B	27.0±0.08	18.8±0.04	17.7±0.01	2.6±1.59	12.1±8.76
183	A30-15-1	B	72.7±0.18	23.5±0.01	28.0±0.01	2.3±0.96	19.3±1.17
184	O15-18-1	BR	101.9±0.10	33.4±0.04	41.2±0.02	12.2±1.16	27.3±1.38
185	C11-4-1	BR	45.7±0.04	22.3±0.03	25.6±0.01	4.2±1.19	14.4±0.80
186	C6-13-1	G	30.9±0.05	19.7±0.02	14.5±0.02	0.2±0.63	10.9±0.70
187	Fry	BR	38.1±0.10	16.3±0.01	7.9±0.01	41.9±4.30	15.2±2.31
188	Albemarle	B	53.6±0.04	22.1±0.03	12.7±0.01	58.9±2.42	24.4±3.01
189	O28-4-2	BR	46.2±0.01	18.5±0.05	8.3±0.02	43.8±3.53	21.6±1.43
190	Digby	BR	46.9±0.05	19.3±0.01	14.1±0.01	52.3±2.84	30.9±2.91
191	O23-11-2	B	59.3±0.11	20.7±0.01	12.6±0.01	43.2±3.22	27.0±4.20
192	A19-13-1	B	46.8±0.06	22.2±0.04	9.0±0.05	28.5±4.55	20.2±3.25
193	Granny Val	BR	90.2±0.13	20.3±0.01	22.7±0.03	67.7±2.17	61.7±2.99
194	O22-19-2	BR	44.0±0.03	20.2±0.02	16.0±0.05	37.7±3.36	17.3±1.26
195	O17-17-1	B	62.9±0.29	19.4±0.06	21.2±0.01	26.4±0.58	27.5±3.67
196	Fry Seedless	R	47.9±0.03	47.8±0.05	22.1±0.01	47.8±2.47	29.8±3.88

Ripe berries of 196 muscadine genotypes were harvested. Colors are presented as black (B), red (R), bronze (BR) and green (G). Total phenolic – TPC (mg GAE.g⁻¹) and total flavonoid – TFC (mg QE.g⁻¹) levels as well as antioxidant (%DPPH inhibition 25 µg/ml) and cytotoxicity (% cell growth inhibition) using two different breast-cancer cell lines, MDA-MB-231 (Caucasian) and MDA-MB-468 (African American) with 4µg/µl crude muscadine extract, are presented as average (±SE) of three biological and technical replicates (*n*=9).
