

Supplementary material to:

ANTIVIRAL ACTIVITY OF FLAVONOIDS PRESENT IN AERIAL PARTS OF *MARCEZIA TAXIFOLIA* AGAINST HEPATITIS B VIRUS, POLIOVIRUS, AND HERPES SIMPLEX VIRUS *IN VITRO*

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Supplementary Table 1: Antiviral activity of 5,3'-dihydroxy-3,6,7,8,4'-pentamethoxyflavone (PMF) and 5-hydroxy-3,6,7,3',4'-pentamethoxyflavone (PMF-OH) against Polio (**a**) and Herpes simplex virus (**b**) *in vitro*. Plaque forming unit values for Poliovirus and HSV on Vero cells. Plaque forming units (PFU) were determined by crystal violet staining as described in 'Material and Methods' section. Values are shown as PFU value for 3 independent experiments for each condition. PFU values obtained for each virus as control are shown.

a) Polio virus												
Concentration (μM)	PMF (PFU)			PMF-OH (PFU)			PMF			PMF-OH		
							Median (%) [*]	SD	N	Median (%) [*]	SD	N
0.0001	91	92	89	92	95	90	0.1	1.39	3	0.1	2.52	3
0.001	81	80	78	76	70	73	11.48	1.25	3	18.89	2.50	3
0.01	45	41	48	42	40	48	50.37	3.19	3	51.85	4.16	3
0.1	11	16	10	23	20	26	86.30	2.92	3	74.44	3.00	3
1	1	1	4	3	5	2	97.78	1.57	3	96.30	1.53	3

PFU for Polio virus control: 92 and SD 3

*Inhibition percent (%) relative to control

b) Herpes simplex virus												
Concentration (μM)	PMF (PFU)			PMF-OH (PFU)			PMF			PMF-OH		
							Median (%) [*]	SD	N	Median (%) [*]	SD	N
0.0001	98	91	90	96	98	90	3.14	3.71	3	1.40	3.54	3
0.001	82	68	76	80	82	86	21.53	5.97	3	13.90	2.59	3
0.01	68	73	61	76	73	70	29.86	5.13	3	23.96	2.55	3
0.1	48	58	55	67	55	50	44.10	4.36	3	40.28	7.43	3
1	34	30	37	10	5	10	64.93	2.99	3	91.32	2.45	3

PFU for HSV control: 96 and SD 5

*Inhibition percent (%) relative to control

Supplementary Table 2: Antiviral activity of PMF and PMF-OH (a), Myricetin rhamnoside (MyrG) and myricetin-3- α -O-rhamnosil (1 \rightarrow 6)- α -galactoside (MyrGG) (b) against HBV *in vitro*. The Ct values obtained for HBV were determined by qPCR. The Ct values for each condition were recorded and quantified based on base to the calibration curve (c).

a) HBV												
Concentration (μ M)	PMF (Ct)			PMF-OH (Ct)			PMF			PMF-OH		
							Median (%) [*]	SD	N	Median (SD) [*]	SD	N
0.0001	22.65	22.72	22.50	22.38	22.35	22.31	6.67	2.05	3	1.52	0.27	3
0.001	23.42	23.50	23.60	22.50	22.36	22.65	51.86	4.19	3	2.50	3.40	3
0.01	24.20	24.12	24.30	22.98	22.90	23.11	71.49	3.30	3	29.44	4.08	3
0.1	25.82	25.60	25.50	23.60	23.30	23.25	90.22	3.68	3	46.94	3.30	3
1	28.42	28.20	28.36	28.75	28.90	28.96	98.69	1.25	3	99.13	0.50	3

*Inhibition percent (%) relative to control

b) HBV												
Concentration (μ M)	MyrG (Ct)			MyrGG (Ct)			MyrG			MyrGG		
							Median (%)	SD	N	Medina (%)	SD	N
0.0001	22.57	22.30	22.21	22.40	22.31	22.12	<0.1	0.00	3	<0.1	0.00	3
0.001	22.35	22.30	22.50	22.35	22.54	22.65	<0.1	0.00	3	<0.1	0.00	3
0.001	22.79	22.80	22.70	22.30	22.50	22.21	16.10	2.94	3	<0.1	0.00	3
0.01	23.40	23.38	23.25	22.45	22.50	22.60	45.61	1.64	3	<0.1	0.00	3
0.1	24.40	24.20	24.15	22.50	22.45	22.50	72.36	4.19	3	<0.1	0.00	3
1	24.80	24.76	24.79	22.85	22.81	22.91	81.51	3.50	3	21.77	3.24	3
10	26.48	26.32	26.20	23.25	23.51	23.46	94.14	2.24	3	48.01	3.30	3
20	28.23	28.90	28.40	24.21	24.25	24.18	98.81	0.00	3	71.67	4.24	3

*Inhibition percent (%) relative to control

Table 2c: HBV calibration curve. Serial dilutions, from the maximum viral production (100 %), were prepared to construct the calibration curve. Each point corresponds to a percentage of the virus equivalent to 100, 50, 10 and 1 %.

c		HBV		
% of viral input	Viral input (log)	Control (Ct)		
1	0	29.00	28.85	28.6
10	1	25.27	25.15	25.31
50	1.699	23.75	23.9	23.69
100	2	22.68	22.3	22.4

$Y = -3.076 * X + 28.68$, R square: 0.98