

Journal of Applied Pharmaceutical Science

Available online at: <https://japsonline.com>

Exploring Bougainvillea glabra flowers: a promising source of natural antimicrobial and anticancer agents

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doi: <http://dx.doi.org/10.7324/JABB.2024.195322>

SUPPLEMENTARY MATERIAL

% Cell viability of various cell types after treatment with *B. glabra* flower extracts.

Hexane extract

Concentration (µg/mL)	HDF	MMNK-1	A549	HT-29	MCF-7	KKU-213A
	%cell ± SD	%cell ± SD	%cell ± SD	%cell ± SD	%cell ± SD	%cell ± SD
0	100	100	100	100	100	100
62.5	106±4.1	88±3.3**	99±10.1	86±3.4*	106±8.5	100±11.5
125	104±9.1	76±8.6**	87±6.8*	74±2.2**	93±5.2	97±3.5
250	105±2.6	68±12.1*	68±1.3***	52±0.6***	88±3.7	86±1.8
500	110±8.0	52±3.3***	36±3.1***	22±4.4***	55±3.6**	77±9.2
750	95±7.5	44±6.7***	24±2.9***	9±2.3***	23±4.4***	62±4.0**
1,000	85±2.8	35±6.5***	5±1.0***	5±0.8***	4±0.5***	23±7.9***

Ethyl acetate extract

Concentration ($\mu\text{g/mL}$)	HDF	MMNK-1	A549	HT-29	MCF-7	KKU-213A
	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD
0	100	100	100	100	100	100
62.5	99 $\pm$ 10.2	87 $\pm$ 6.0 [*]	110 $\pm$ 13.5	96 $\pm$ 18.7	96 $\pm$ 0.9	97 $\pm$ 13.0
125	98 $\pm$ 6.2	82 $\pm$ 1.5 ^{***}	106 $\pm$ 17.8	74 $\pm$ 15.7	90 $\pm$ 3.9	101 $\pm$ 14.4
250	99 $\pm$ 4.6	69 $\pm$ 1.5 ^{***}	90 $\pm$ 11.1	67 $\pm$ 14.5 [*]	91 $\pm$ 8.5	89 $\pm$ 8.1
500	96 $\pm$ 3.9	35 $\pm$ 2.5 ^{***}	76 $\pm$ 16.2	40 $\pm$ 5.4 ^{***}	71 $\pm$ 12.3 [*]	88 $\pm$ 7.3
750	86 $\pm$ 8.6	12 $\pm$ 3.5 ^{***}	36 $\pm$ 7.1 ^{***}	25 $\pm$ 1.0 ^{***}	46 $\pm$ 4.8 ^{**}	61 $\pm$ 3.2 ^{**}
1,000	48 $\pm$ 2.3 ^{***}	8 $\pm$ 1.3 ^{***}	14 $\pm$ 5.6 ^{***}	9 $\pm$ 0.7 ^{***}	10 $\pm$ 1.2 ^{***}	32 $\pm$ 7.8 ^{**}

Methanol extract

Concentration ($\mu\text{g/mL}$)	HDF	MMNK-1	A549	HT-29	MCF-7	KKU-213A
	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD
0	100	100	100	100	100	100
62.5	112 $\pm$ 13.8	95 $\pm$ 11.4	108 $\pm$ 8.3	98 $\pm$ 1.1	99 $\pm$ 6.8	115 $\pm$ 10.1
125	113 $\pm$ 13.6	86 $\pm$ 2.4 ^{**}	106 $\pm$ 16.8	97 $\pm$ 18.8	105 $\pm$ 11.8	103 $\pm$ 16.7
250	107 $\pm$ 9.0	80 $\pm$ 6.7 ^{**}	111 $\pm$ 6.2	90 $\pm$ 11.5	97 $\pm$ 6.5	95 $\pm$ 10.0
500	95 $\pm$ 7.5	78 $\pm$ 8.0 [*]	99 $\pm$ 19.1	84 $\pm$ 12.3	85 $\pm$ 7.3	94 $\pm$ 10.6
750	85 $\pm$ 5.0 [*]	68 $\pm$ 2.7 ^{***}	89 $\pm$ 11.1	54 $\pm$ 5.8 ^{***}	80 $\pm$ 10.3 [*]	73 $\pm$ 11.4 [*]
1,000	79 $\pm$ 6.6 ^{**}	37 $\pm$ 4.3 ^{***}	58 $\pm$ 8.6 ^{**}	15 $\pm$ 1.6 ^{***}	67 $\pm$ 11.1 [*]	44 $\pm$ 5.7 ^{***}

Water extract

Concentration ($\mu\text{g/mL}$)	HDF	MMNK-1	A549	HT-29	MCF-7	KKU-213A
	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD	%cell $\pm$ SD
0	100	100	100	100	100	100
62.5	113 $\pm$ 5.1	102 $\pm$ 5.9	103 $\pm$ 3.9	97 $\pm$ 13.3	111 $\pm$ 10.1	109 $\pm$ 3.0
125	112 $\pm$ 2.5	96 $\pm$ 5.5	100 $\pm$ 7.3	91 $\pm$ 17.4	117 $\pm$ 7.5	109 $\pm$ 6.1
250	110 $\pm$ 5.0	97 $\pm$ 7.7	98 $\pm$ 10.0	91 $\pm$ 14.0	112 $\pm$ 13.7	104 $\pm$ 9.8
500	100 $\pm$ 9.8	92 $\pm$ 13.6	94 $\pm$ 10.6	91 $\pm$ 7.0	110 $\pm$ 13.1	98 $\pm$ 9.6

750	95±10.1	88±10.7	89±8.8	87±12.7	104±8.6	76±4.0 ^{**}
1,000	76±2.1 [*]	85±14.1	88±2.3 ^{**}	79±13.9	89±13.6	58±14.2 [*]

Statistically significant: ^{*}($p < 0.05$); ^{**} ($p < 0.01$); ^{***} ($p < 0.001$).