## Screening for Antitumor Efficacy from the wild plants in Korea( III )

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## Cytotoxic activity on P388 cells

The MTT(3-(4,5- dimethylthiazol-2-yl)-2.5-diphenyltetrazolium bromide) colorimetric assay was performed in a 96-well plate. The blue formozan Produced by the mitochondrial dehydrogenase of viable cells was measured spectro photometrically.  $100\mu$ l of RPM-1640 medium Suplemented with 5% fetal calf serum and  $100\mu$ g/ml of kanamycine and containing mouse P388 leukemia cells  $(3 \times 10^4 \text{ cells/ml})$  was added to each well. After over night incubation  $(37 \,^{\circ}\text{C}, 5\% \, \text{CO}^2)$ , 100, 30, 10, 3, 1, 0, 0.3 and  $0.1\mu$ g/ml of sample solutions were added to the wells and the plates were incubated for 48h. Then,  $20\mu$ l of MTT was added to each well and the plates were incubated for 4h. The resulting formazan was dissolved in  $100\mu$ l of  $10\% \, \text{SDS}$  (Sodium dodecyl sulfate) containing  $0.01 \, \text{N} \, \text{HCI}$ . Each well was mixed gently with a pipet for 1 or 2 min and the plate was read on a microplate reader (Tosoh MPR-A4*i*) at 540nm. The ICs( $\mu$ g/ml)value was defined as the concentration of sample which achieved 50% reduction of viable cells with respect to the control.

Cytotoxic Activities On P388 Cells

_	Scientific Name	Crude	Geographical	Con	Concentration(µg/ml)/T/C(%)	ation(	m/Bm)	1)/L/(1	C(%)		
		Drug	Zone	ICso 100	100	30	10	3	_	0.3	0.1
Θ	Smilax China L.	土茯苓	KOREA MEDICINES	53	19	77	103	108	108	114	110
0	Citrus Unshin	陳 皮	CO.LTD.	1.9	0	0	0	25	82	100	106
	MARC										
ල	Artemisia asiatica	<b>大</b>		5.8	0	0	21	82	101	101	105
	NAKAI										
4	Allium Odorum L.	##		78	42	75	91	91	86	16	95
(2)	Akebia quinata	大遍		80	42	98	101	103	105	107	107
	DENCAISN				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
9	Trichosanthes	瓜婁仁		35	0	58	88	94	91	67	96
	Kirilowii MAX										
<b>©</b>	Discorea japonica	凝		20	0	39	89	85	88	86	86
	THUNB										
<u>@</u>	(8) Cydonia Sinensis	<b>大</b>		77	42	77	83	87	90	06	92
	THOUIN										

No.	Scientific Name	Crude	Geographical	ŭ	Coentration(µg/ml)/T/C(%)	tion(,	ug/mi	)/I/(	(%)		
		Drug	Zone	ICso	100	30	10	3	_	0.3 0.1	0.1
6	Adenophra radiatifalia	南沙蔘	KOREA MEDICINES	36	12	57	93	103	100	103	110
	NAKAI		CO.LTD.								
(2)	Nelumbo nucifera	連子內		62	25	88	105	86	66	86	101
	GAERT										
(=)	Aristo lochia Contoria	馬兜鈴		15	0	13	64	98	68	26	95
	BUNGE										
(2)	Imperata Cylindria	白茅根		62	36	73	83	84	85	87	91
	BEAUV			V							
<b>(2)</b>	Aralia Continentalis	獨活		7.2	9	0	31	1111	115	118	115
	KITAGAWA										
<b>(4)</b>	Holiotis gigantea	石決明		11	0	9	53	98	92	105	110
	Gmelin										