

Table 1S. Mediouni & Jablonski et al.

PUERARIA LOBATA (ROOT)			
References	Liu et al., 2015	Li et al., 2010	Du et al., 2010
Origin	Crude extract (China)		
Techniques	Dual high-Resolution alpha glycosidase inhibition and radical scavenging profiling combined with hyphenated HPLC-HRMS-SPE-NMR	HPLC followed by NMR	Microwave-assisted extraction and ultra high performance liquid chromatography coupled with diode array detection and time-of-flight mass spectrometry
	Puerarin	-	Puerarin
	3'-hydroxypuerarin	-	3'-hydroxypuerarin
	3'-methoxypuerarin	-	3'-methoxypuerarin
	-	-	Puerarin-4'-O-glucoside
	-	-	Puerarin-3'methoxy-4'-O-glucoside
	-	-	6''-O-xylosylpuerarin
	6''-O- α -d-apofuranosylpuerarin	-	-
	Daidzin		
	-	-	Daidzin-4',7-O-glucoside
	6''-O-malonyldaidzin	-	-
	3'-methoxydaidzin	-	-
	Daidzein		
	Daidzein 8-C-[β -d xylopyranosyl-(1→6)]- β -d-glucopyranoside	-	-
	daidzein 4'- β -d-glucopyranoside	-	-
	-	3'-methoxy daidzein	-
	-	3'-hydroxy daidzein	-
	-	-	Isodaidzein
	Genistein	-	Genistein
	Genistein 8-C- α -d-apiosyl-(1→6)- β -d-glucoside	-	-
	Genistein 8-C- β -d-glucoside	-	-
	Genistin		
	6''-O-malonylgenistin	-	-
	Ononin		
	6''-O-malonylononin	-	-
	-	8-methoxy ononin	-
	Formononetin		
	Sissotrin	Sissotorin	-
	-	-	Biochanin A
	Biochanin A 7-O- β -d-glucoside-6''-O-malonate	-	-
	-	β -Sitosterol palmitate	-
	-	β -Sitosterol	-
	-	Lupeol	-
	-	Lupeone	-
	-	Puerarol	-
	-	Diisobutyl phthalate	-
	-	Bis (2-ethylhexyl) phthalate	-
	-	Sophoracoumestan A	-
	-	Coumestrol	-
	-	Allantoin	-
	-	(-)-puerol B 2-O-glucopyranoside	-
	Puerol B 2-O- β -d-glucopyranoside	-	-
	-	(6S, 9R)-roseoside	-
	-	Sucrose	-
	-	-	Pseudobaptigenin
	-	-	6''-O-Apiosyl
	-	-	Sophoraside A
	-	-	Mirificin

Table 1S. Published Components of Kudzu from China.

Figure 1S. Mediouni & Jablonski et al.

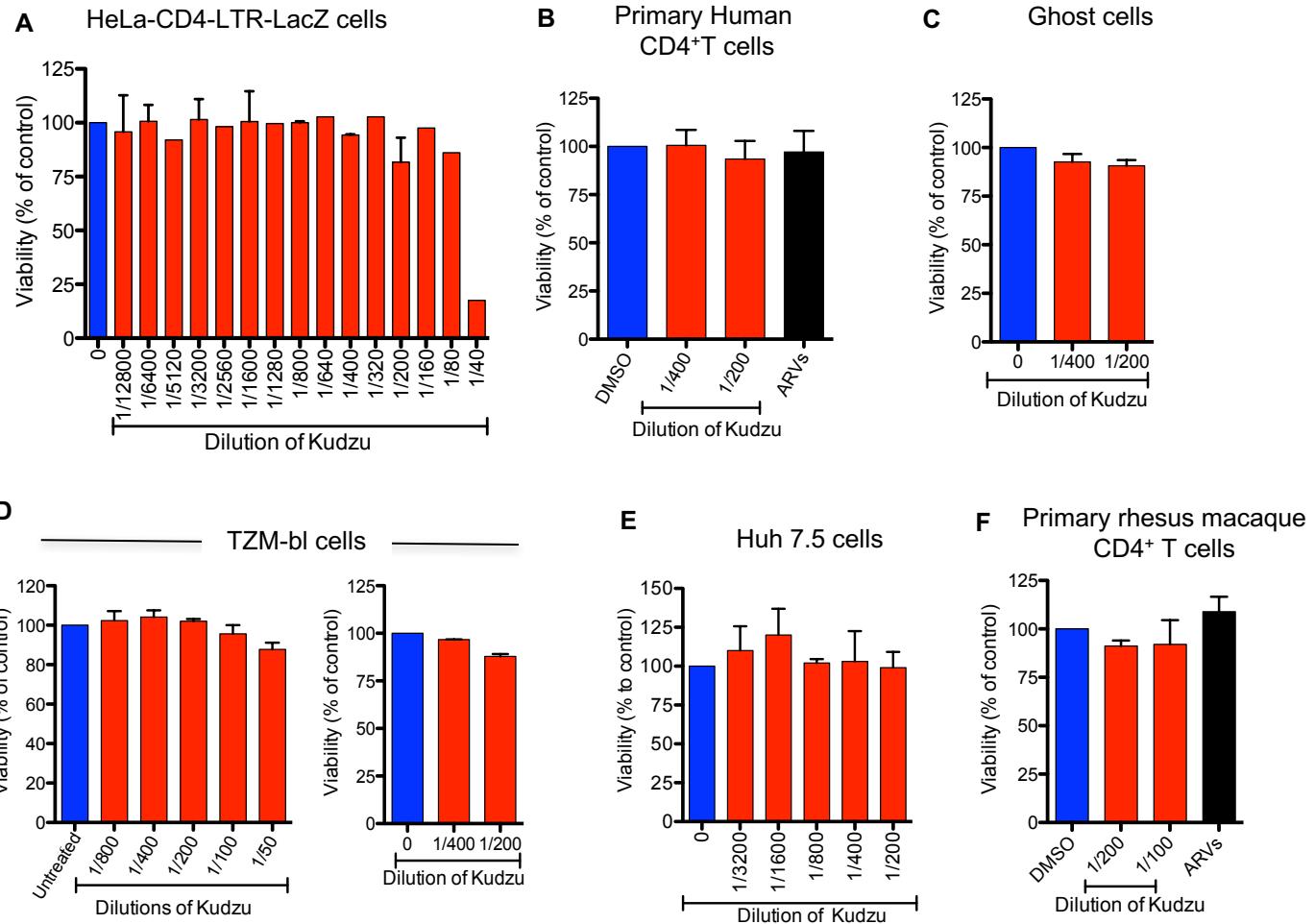


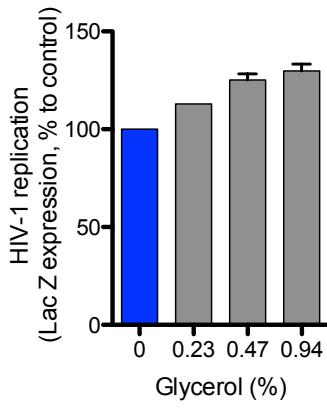
Figure 1S. Cytotoxicity of the cells used. Viability assays performed in (A) HeLa-CD4-LTR-LacZ cells 72 h post-treatment in presence of different concentrations of Kudzu. (B) HIV-infected primary human CD4⁺T cells cells 24 h post infection. (C) Ghost cells 72 h treatment with Kudzu. ARVs: antiretrovirals (Raltegravir 200 nM, Efavirenz 100 nM, AZT 180 nM). (D) TZM-bl cells 3 (on the left) or 72 h (on the right) post-treatment. (E) Huh 7.5 cells 72 h post-treatment. (F) SIV-infected primary rhesus macaque CD4⁺T cells 6 days post infection. Results represent average from infection of primary macaque CD4⁺T cells from three independent rhesus macaques. ARVs: antiretrovirals (Emtricitabine, Raltegravir, Tenofovir, 200 nM). Results represent the mean \pm SD of 3 independent experiments for A, B and F, and 2 independent experiments for C, D and E.

Figure 2S. Mediouni & Jablonski *et al.*

A

CLASS OF ARVs	Compound	IC ₅₀
	Kudzu (dilution)	1:5263 ± 6.3x10 ⁻⁵
Entry inhibitors	Enfuvirtide (nM)	2.3 ± 0.3
	AMD3100 (nM)	0.7 ± 0.1
Integrase inhibitor	Raltegravir (nM)	4.5 ± 0.6
	Lamivudine (nM)	125.6 ± 2.3
Reverse transcriptase inhibitors	Efavirenz (nM)	0.5 ± 0.1
	Emtricitabine (nM)	12.0 ± 3.9
	AZT (nM)	4.0 ± 0.7

B



C

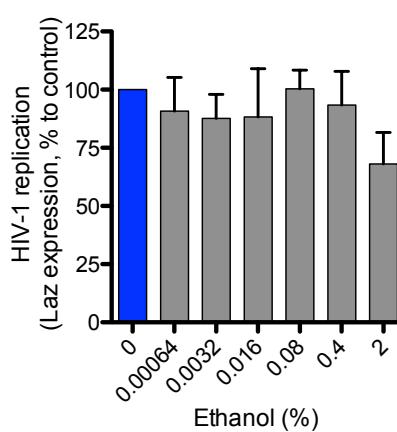


Figure 2S. Activity of Kudzu's vehicles (glycerol and Ethanol) and ARVs in acute infection of HeLa-CD4-LTR-LacZ cells with an X4 tropic virus. (A) Table comparing the mean of the IC₅₀ ± SD of Kudzu activity and of different potent antiretrovirals (ARVs) against acute infection of HeLa-CD4-LTR-LacZ cells with NL4-3 strain. β-Gal activity was measured 72 h later. Shown is mean ± SD of 2 to 5 independent experiments. (B,C) HeLa-CD4-LTR-LacZ cells were infected with HIV-1 NL4-3 strain in the presence of different dilutions of Glycerol or Ethanol. β-Gal activity was measured 72 h later. The mean ± SD of 2 independent experiments is represented for the vehicle glycerol condition. The mean ± SEM of 3 independent experiments is shown for the vehicle Ethanol.

Figure 3S. Mediouni & Jablonski *et al.*

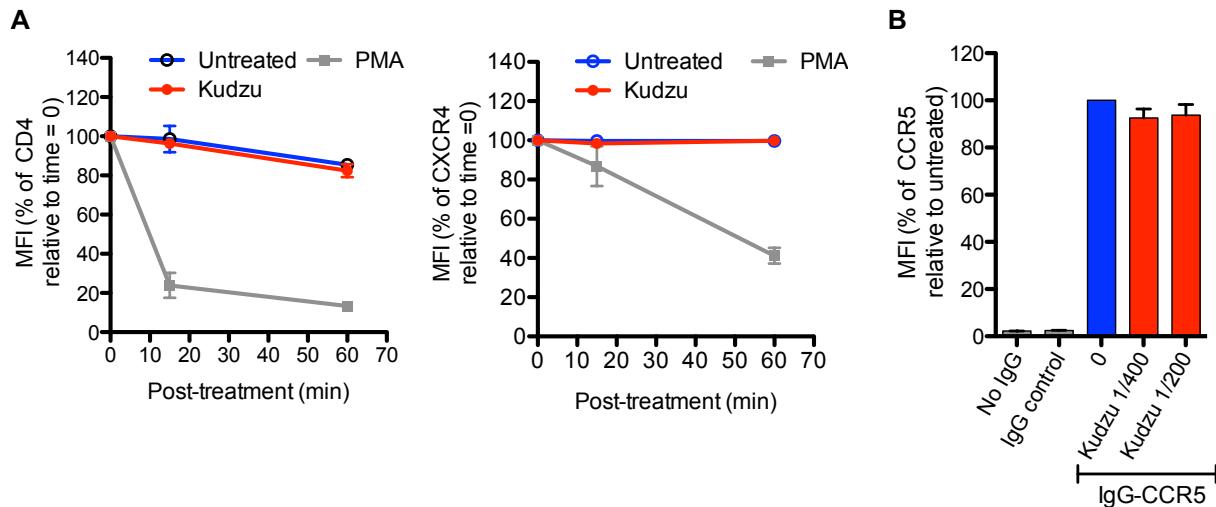


Figure 3S. Kudzu does not alter CD4, CXCR4 and CCR5 cell membrane expression. (A) Expression of CD4 and CXCR4 on HeLa-CD4-LTR-LacZ cells in the presence of Kudzu at the dilution 1:400 was detected by FACS. The phorbol ester phorbol myristate acetate (PMA) was used as a control. Results represent the mean \pm SD of 2 independent experiments. (B) Expression of CCR5 on GHOST-CCR5 cells in the presence of Kudzu at the dilution 1:400 and 1:200 was detected by FACS after 6 h of incubation. Shown is the mean \pm SD of 2 independent experiments.

Primer/Probe	Sequence (5'-3')
CD3OUT5	ACTGACATGGAACAGGGGAAG
CD3OUT3	CCAGCTCTGAAGTAGGGAACATAT
CD3IN5	GGCTATCATTCTTCAAGGT
CD3IN3	CCTCTCTTCAGCCATTTAAGTA
CD3 Taq	LC640AGCAGAGAACAGTTAAGAGCCTCCAT-BBQ
HIV L1	ATGCCACGTAAGCGAAACTCTGGGTCTCTCTDGTAGAC
HIV R1	CCATCTCTCCTCTAGC
HIV L2	ATGCCACGTAAGCGAAACT
HIV R2	CTGAGGGATCTCTAGTTACC
HIV Taq	LC640-CACTCAAGGCAAGCTTATTGAGGC-BBQ
SGAG21	GTCTGCGTCATPTGGTGCATTC
SGAG22	CACTAGKTGTCTCTGACTATPTGTTTG
SIV TaqMan	CTTCPTCAGTKTGTTCACTTCTCTGCG-(BHQ™1)

Table 2S. Table of primers/probes used.