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(54) Title: COMPOSITIONS COMPRISING HIV ENVELOPES TO INDUCE CH235 LINEAGE ANTIBODIES

	CH235 Lineage												
	UCA	IA4	IA3	IA2	IA1	CH240	CH236	CH235	CH239	CH241	CH491	CH493	CH558
CH505.M5 gp120	0.2	1.4	7	6.9	9.2	7.4	7.3	11	13	16	11	9.3	6.5
CH505.M11 gp120	nb	nb	nb	nb	2.8	0.5	1.4	7.6	1.4	9.7	6.8	8.3	5.4
CH505w20.14 gp120	nb	nb	2.7	1.2	6.5	3.8	6.7	9.9	9	13	9.3	8.2	6.1
CH505w30.20 gp120	nb	0.2	1.2	0.5	4.8	1.5	6.2	8.3	8	8	8.8	8.1	5.4
CH505w30.12 gp120	nb	nb	nb	nb	2.4	0.4	1	7.3	3.4	9.6	3.8	3.2	1
CH505w136.B18 gp120	nb	nb	nb	nb	2.4	0.3	3.5	7.5	0.7	0.9	3.5	5.8	1.8

Figure 16A

(57) Abstract: In certain aspects the invention provides HIV-1 immunogens, including HIV-1 envelope selections from individual CH505, and methods for swarm immunizations using combinations of HIV-1 envelopes.

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