

Supplemental Material to:

Hui Zhao, Zhi-Jie Lin, Shou-Jie Huang, Juan Li, Xiao-Hui Liu, Meng Guo, Jun Zhang, Ning-Shao Xia, Hui-Rong Pan, Ting Wu, and Chang-Gui Li

Correlation between ELISA and pseudovirion-based neutralisation assay for detecting antibodies against human papillomavirus acquired by natural infection or by vaccination

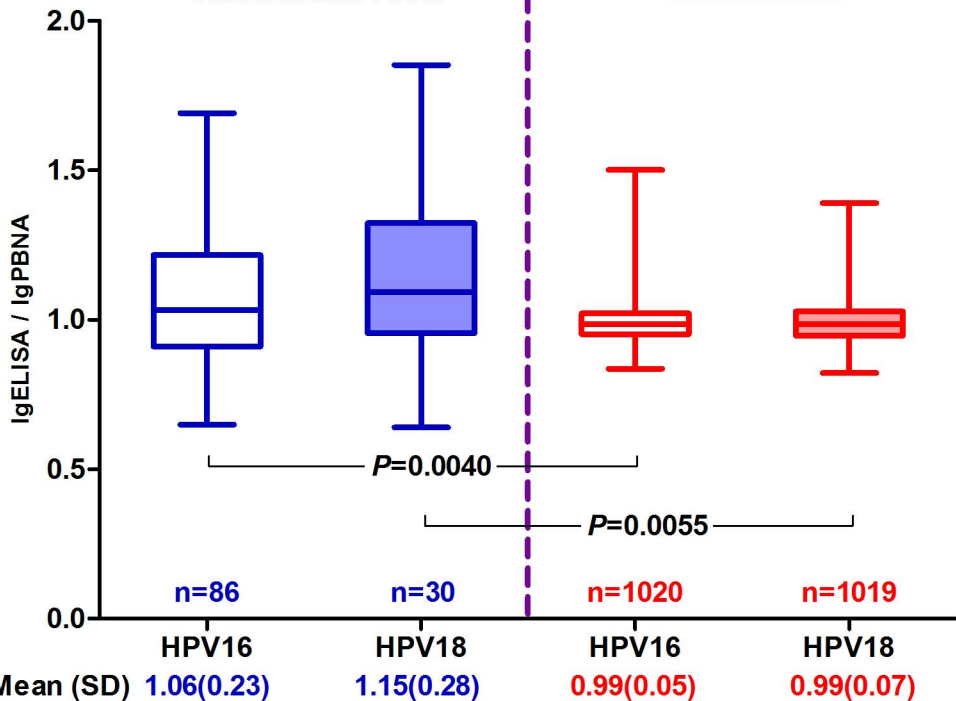
Human Vaccines & Immunotherapeutics 2013; 10(3)

<http://dx.doi.org/10.4161/hv.27619>

<http://www.landesbioscience.com/journals/vaccines/article/27619>

Natural Infection

Vaccination



Supplementary:

Figure Legends:

Figure 1. The ratios of logarithmic antibody titres measured by the eVLP-based ELISA and the PBNA for Cecolin[®] vaccination induced and naturally acquired HPV antibodies. All the data showed in this figure are double positive samples. The lower edge, middle line and upper edge of each box mean the 25%, 50% and 75% value of relative ratios. The two horizontal lines outside each box mean the minimum and maximum value of relative ratios. Mean values and their standard deviation (SD) were shown under the figure. n: number of samples; PBNA, pseudovirion-based neutralisation assay; IgELISA/IgPBNA, ratio of logarithmic titres between ELISA and PBNA.

Table 1 The mean and quartile titers after natural infection and vaccination assessed by ELISA and PBNA.

	Natural infection induced antibodies						Cecolin [®] vaccination induced antibodies					
	HPV16 (n=86)			HPV18 (n=30)			HPV16 (n=1020)			HPV18 (n=1019)		
	ELISA	PBNA	lgELISA / lgPBNA	ELISA	PBNA	lgELISA / lgPBNA	ELISA	PBNA	lgELISA / lgPBNA	ELISA	PBNA	lgELISA / lgPBNA
Min	20	20	1.00	20	20	1.00	553	160	1.24	443	160	1.20
25%	48.75	35	1.09	45.75	20	1.28	4617	5120	0.99	3055	2560	1.02
50%	75.5	80	0.99	75	60	1.05	7721	10240	0.97	5179	5120	1.00
75%	152.3	160	0.99	164.8	200	0.96	12310	10240	1.02	8899	10240	0.98
Max	977	640	1.07	1276	320	1.24	102296	163840	0.96	89830	81920	1.01
GMT	86.76	77.46	1.03	91.3	60.63	1.10	7405	8403	0.99	5167	5815	0.99

PBNA, pseudovirion-based neutralisation assay; lgELISA/lgPBNA, ratio of logarithmic titres between ELISA and PBNA; GMT, geometric mean titre