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Email

To: [redacted]
Email:
CC:
Email:
From:
Date: 1st May 2009
Subject: Vaccine Matching Report
No. Of Pages: 2

Dear [redacted]

Please find below the final vaccine matching ("r1" value) report for O IRN/7/2009 and O IRN/14/2009.

Yours sincerely,

[redacted]

Head: Vesicular Reference Laboratory

[redacted]

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Report no:	09/09	VNT				ELISA			
Field Isolate:		Vaccine:	O Manisa	O Bfs	O Ind R2/75	Vaccine:	O Manisa	O 4174	O BFS 1860
O Irn 7/2009	Test 1	mn31/09	0.11	0.05	0.19	SD 49/09	0.50	Did not trap	Did not trap
	Test 2	mn39/09	0.23	0.07	0.16	SD 50/09	1.00		
		Mean	0.17	0.06	0.18	Mean	0.75		
O Irn 14/2009	Test 1	mn31/09	0.45	0.36		SD 49/09	0.67	0.13	0.17
	Test 2	mn39/09	0.17	0.08		SD 50/09	1.00	0.25	0.25
	Test 3	mn44/09	0.17	0.04		SD 51/09		0.25	0.06
	Test 4					SD 52/09			ref sera fail
	Test 5					SD 53/09			0.13
		Mean	0.26	0.16		Mean	0.84	0.21	0.15

Interpretation of vaccine matching (r_1) values

In the case of ELISA:

r_1 = 0.4-1.0. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.
r_1 = 0.2-0.39, Suggests that the field isolate is antigenically related to the vaccine strain. The vaccine strain might be suitable for use if no closer match can be found provided that a potent vaccine is used and animals are preferably immunised more than once.
r_1 = <0.2. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

In the case of neutralisation:

r_1 = $\geq$ 0.3. Suggests that there is a close relationship between field isolate and vaccine strain. A potent vaccine containing the vaccine strain is likely to confer protection.
r_1 = < 0.3. Suggests that the field isolate is so different from the vaccine strain that the vaccine is unlikely to protect.

N.B.

All of our phylogenetic trees can be accessed via the internet at:

http://www.iah.bbsrc.ac.uk/primary_index/current_research/virus/Picornaviridae/Aphthovirus/index.html