

Serotype: O Report date: 05/09/2005
WRL Ref No: SAU/13/2005
Sender Ref: #1763 Teat
Date collected: 29/07/2005
Date received by WRLFMD: 03/08/2005 Topotype: ME-SA
Date received for sequencing: 08/08/2005 Genotype/strain: PanAsia
Species: Bovine Sequence filename: SAU05-13.SEQ
Material used: BTy1 Date sequence last updated: 02/09/2005
Region sequenced: VP1 Total no. of comparisons: 1718
RT-PCR primers: O-1C272F/EUR-2B52R Min. no. of nt for comparison: 300
No. of Nt determined: 639 Total turn-around time: 33 days
No. of ambiguities: 0 Sequencing time: 28 days
Gene length: 639

Comments: see attached report for comparisons within the Saudi Arabian FMD O viruses isolated in 2005.

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/BAR/1/99	BAR99-01	323	310	0	95.98	4.02
2	O/LEB/14/98	LEB98-14	614	586	3	95.44	4.56
3	O/LEB/17/98	LEB98-17	624	595	3	95.35	4.65
4	O/BAR/8/98	BAR98-08	639	609	0	95.31	4.69
5	O/SKR/2000 (AJ539139)	SKR00-AA	639	609	0	95.31	4.69
6	O/SKR/2000 (AF428246)	SKR00-AC	639	609	0	95.31	4.69
7	O/LEB/12/98	LEB98-12	621	591	2	95.17	4.83
8	O/NEP/4/98	NEP98-04	639	608	0	95.15	4.85
9	O/IND/146/98* [IVRI]	IND98-AW	639	608	0	95.15	4.85
10	O/BAR/6/99	BAR99-06	639	608	0	95.15	4.85

Relationships to Reference Virus Strains

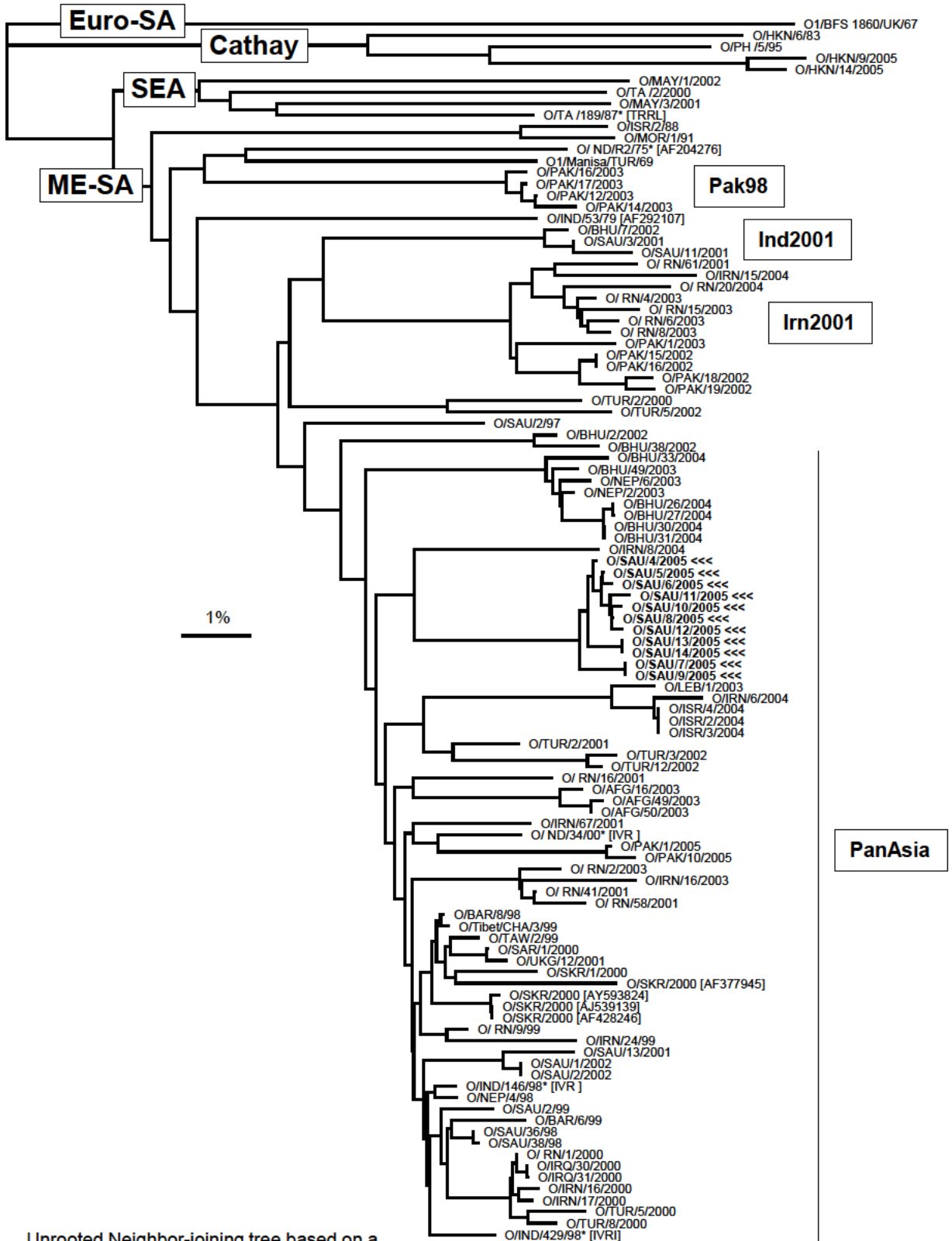
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/TAW/2/99	TAW99-02	639	606	0	94.84	5.16
2	O1/Manisa/TUR/69	TUR69--E	639	574	0	89.83	10.17
3	O/IND/53/79 [AF292107]	IND79A53	639	566	0	88.58	11.42
4	O/IND/R2/75* [AF204276]	IND75--A	639	563	0	88.11	11.89
5	O/MOR/1/91	MOR91-01	639	560	0	87.64	12.36
6	O/TAI/189/87* [TRRL]	TAI87-AC	639	560	0	87.64	12.36
7	O/ISR/2/88	ISR88-02	639	557	0	87.17	12.83
8	O/PHI/5/95	PHI95-05	639	521	0	81.53	18.47
9	O/HKN/6/83	HKN83-06	637	516	2	81	19
10	O1/BFS 1860/UK/67	UKG67--A	639	512	0	80.13	19.87

nt, nucleotides

*, not a WRLFMD reference number

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nt, nucleotides							
*, not a WRLFMD reference number							

Report on: O Saudi Arabia 2005



Unrooted Neighbor-joining tree based on a comparison of the complete VP1 gene. The tree was outgroup-rooted using O1/BFS 1860/UK/67. *, not a WRLFMD ref. no.