

**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to the
Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: O	Date: 21/01/2004
Virus isolate: SAU/1/2002	Reported by: N.J. Knowles
Material used: BTy1	Signed (file copy only):
Region sequenced: VP1	Counter-signed (file copy only):
RT-PCR primer set: O-1C272F/NK61	Seq. filename: SAU02-01
Topotype: ME-SA	No. of ambiguities: 0
Genotype/strain: PanAsia	Date seq. last updated: 04/04/2003
No. of nt determined / no. in gene: 623 / 639	Total no. of comparisons made: 1317

Comments:

Ten Most Closely Related Viruses

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/SAU/2/2002	SAU02-02	622	622	0	100.00	0.00
2	O/IND/65/98* Punjab	IND98-AF	149	149	0	100.00	0.00
3	O/IND/55/98* Punjab	IND98-AB	149	149	0	100.00	0.00
4	O/IND/249/99* Gujarat	IND99-AL	149	149	0	100.00	0.00
5	O/IND/57/98* Punjab	IND98-AD	149	149	0	100.00	0.00
6	O/IND/48/98* Punjab 1997	IND97-BC	149	149	0	100.00	0.00
7	O/IND/81/98* Uttar Pradesh	IND98-AH	149	149	0	100.00	0.00
8	O/IND/56/98* Punjab	IND98-AC	149	149	0	100.00	0.00
9	O/IND/207/99* Tamil Nadu	IND99-AJ	149	148	0	99.33	0.67
10	O/IND/209/99* Maharashtra 1998	IND98-AU	149	148	0	99.33	0.67

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	623	605	0	97.11	2.89
2	O/IND/53/79	IND79A53	623	561	0	90.05	9.95
3	O1/Manisa/TUR/69	TUR69--E	623	554	0	88.92	11.08
4	O/IND/R2/75*	IND75--A	623	551	0	88.44	11.56
5	O/MOR/1/91	MOR91-01	192	169	2	88.02	11.98
6	O/ISR/1/88	ISR88-01	177	153	5	86.44	13.56
7	O/TAI/189/87*	TAI87--B	516	446	3	86.43	13.57
8	O/HKN/6/83	HKN83-06	621	505	2	81.32	18.68
9	O/PHI/5/95	PHI95-05	500	406	6	81.20	18.80
10	O1/BFS 1860/UK/67	UKG67--A	623	502	0	80.58	19.42

nt, nucleotides

*, not a WRLFMD reference number

cc. Head of Experimental Epidemiology Group

cc. Head of Vesicular Diseases Group

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Region sequenced: VP1	Counter-signed (file copy only):
RT-PCR primer set: O-1C272F/NK61	Seq. filename: SAU02-02
Topotype: ME-SA	No. of ambiguities: 0
Genotype/strain: PanAsia	Date seq. last updated: 04/04/2003
No. of nt determined / no. in gene: 622 / 639	Total no. of comparisons made: 1317

Comments:

Ten Most Closely Related Viruses

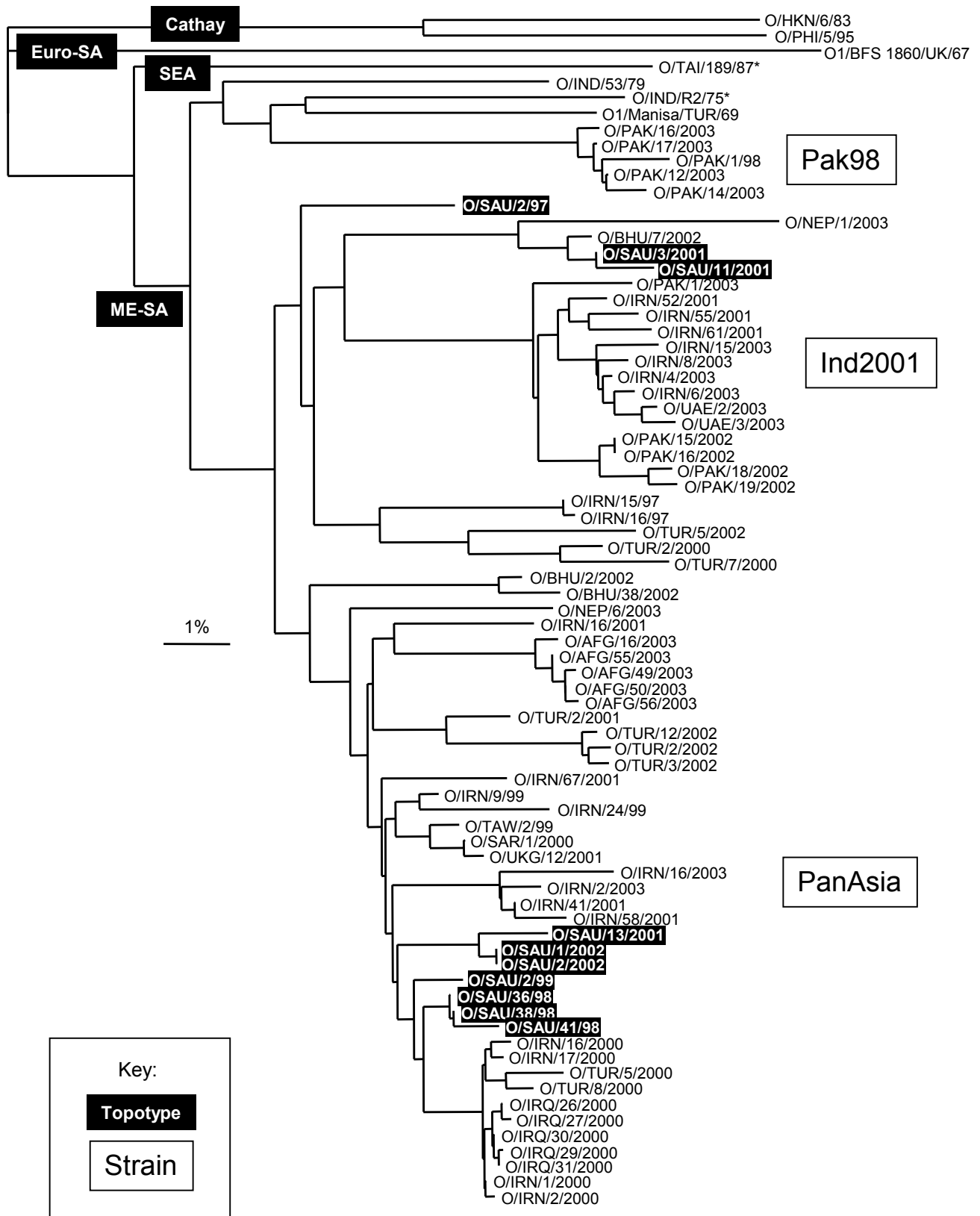
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/IND/65/98* Punjab	IND98-AF	148	148	0	100.00	0.00
2	O/IND/55/98* Punjab	IND98-AB	148	148	0	100.00	0.00
3	O/IND/249/99* Gujarat	IND99-AL	148	148	0	100.00	0.00
4	O/IND/57/98* Punjab	IND98-AD	148	148	0	100.00	0.00
5	O/IND/48/98* Punjab 1997	IND97-BC	148	148	0	100.00	0.00
6	O/IND/81/98* Uttar Pradesh	IND98-AH	148	148	0	100.00	0.00
7	O/SAU/1/2002	SAU02-01	622	622	0	100.00	0.00
8	O/IND/56/98* Punjab	IND98-AC	148	148	0	100.00	0.00
9	O/IND/207/99* Tamil Nadu	IND99-AJ	148	147	0	99.32	0.68
10	O/IND/209/99* Maharashtra 1998	IND98-AU	148	147	0	99.32	0.68

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	622	604	0	97.11	2.89
2	O/IND/53/79	IND79A53	622	560	0	90.03	9.97
3	O1/Manisa/TUR/69	TUR69--E	622	553	0	88.91	11.09
4	O/IND/R2/75*	IND75--A	622	550	0	88.42	11.58
5	O/MOR/1/91	MOR91-01	191	168	2	87.96	12.04
6	O/TAI/189/87*	TAI87--B	515	445	3	86.41	13.59
7	O/ISR/1/88	ISR88-01	176	152	5	86.36	13.64
8	O/HKN/6/83	HKN83-06	620	504	2	81.29	18.71
9	O/PHI/5/95	PHI95-05	499	405	6	81.16	18.84
10	O1/BFS 1860/UK/67	UKG67--A	622	501	0	80.55	19.45

nt, nucleotides
*, not a WRLFMD reference number

cc. Head of Experimental Epidemiology Group
cc. Head of Vesicular Diseases Group



Comparison of foot-and-mouth disease virus type O isolates from Saudi Arabia (1997-2002) with other FMD O viruses. Neighbor-joining tree based on a comparison of complete VP1 sequences.