

**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	Report date: 15/03/2004
WRL Ref No: ISR/2/2004	Reported by N.J. Knowles:
Date collected: 20/01/2004	Validated by J.-F. Valarcher:
Date received: 23/02/2004	Topotype: ME-SA
Species: Cattle	Genotype/strain: PanAsia
Material used: PK3 BTy1	Sequence filename: ISR04-02.SEQ
Region sequenced: VP1	Date sequence last updated: 05/03/2004
RT-PCR primers: O-1C244F/NK61	Total no. of comparisons: 1369
No. of Nt determined: 639	
No. of ambiguities: 0	
Gene length: 639	

Comments: We were unable to amplify the VP1 gene from the original cell culture material sent.

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ISR/3/2004	ISR04-03	639	639	0	100.00	0.00
2	O/ISR/4/2004	ISR04-04	639	639	0	100.00	0.00
3	O/LEB/1/2003	LEB03-01	639	631	0	98.75	1.25
4	O/TUR/6/2003	TUR03-06	630	616	3	97.78	2.22
5	O/LEB/2/2002	LEB02-02	299	292	1	97.66	2.34
6	O/TUR/7/2003	TUR03-07	639	621	0	97.18	2.82
7	O/Kinmen/TAW/99*	TAW99--A	165	159	0	96.36	3.64
8	O/IND/209/99* (1998)	IND98-AU	165	158	0	95.76	4.24
9	O/IND/61/97* (1996)	IND96-AB	165	158	0	95.76	4.24
10	O/IND/289/97*	IND97-AW	165	158	0	95.76	4.24

**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	607	0	94.99	5.01
2	O1/Manisa/TUR/69	TUR69--E	639	570	0	89.20	10.80
3	O/IND/53/79	IND79A53	639	567	0	88.73	11.27
4	O/IND/R2/75*	IND75--A	639	561	0	87.79	12.21
5	O/Geshur/ISR/85	ISR85-AA	639	558	0	87.32	12.68
6	O/TAI/189/87*	TAI87--B	527	456	3	86.53	13.47
7	O/MOR/1/91	MOR91-01	207	176	3	85.02	14.98
8	O/ISR/1/88	ISR88-01	193	164	5	84.97	15.03
9	O/PHI/5/95	PHI95-05	516	420	6	81.40	18.60
10	O/HKN/6/83	HKN83-06	637	517	2	81.16	18.84
11	O1/BFS 1860/UK/67	UKG67--A	639	509	0	79.66	20.34

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O	Report date: 15/03/2004
WRL Ref No: ISR/3/2004	Reported by N.J. Knowles:
Date collected: 22/01/2004	Validated by J.-F. Valarcher:
Date received: 23/02/2004	Topotype: ME-SA
Species: Cattle	Genotype/strain: PanAsia
Material used: PK3 BTy1	Sequence filename: ISR04-03.SEQ
Region sequenced: VP1	Date sequence last updated: 05/03/2004
RT-PCR primers: O-1C244F/NK61	Total no. of comparisons: 1369
No. of Nt determined: 639	
No. of ambiguities: 0	
Gene length: 639	

Comments: A RT-PCR product was also obtained of the original cell culture material received (PK3). This was partially sequenced and 485 nt were found to be identical to those of the first BTy passage.

**Ten Most Closely Related Viruses**

Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	O/ISR/2/2004	ISR04-02	639	639	0	100.00	0.00
2	O/ISR/4/2004	ISR04-04	639	639	0	100.00	0.00
3	O/LEB/1/2003	LEB03-01	639	631	0	98.75	1.25
4	O/TUR/6/2003	TUR03-06	630	616	3	97.78	2.22
5	O/LEB/2/2002	LEB02-02	299	292	1	97.66	2.34
6	O/TUR/7/2003	TUR03-07	639	621	0	97.18	2.82
7	O/Kinmen/TAW/99	TAW99--A	165	159	0	96.36	3.64
8	O/IND/289/97*	IND97-AW	165	158	0	95.76	4.24
9	O/IND/209/99* (1998)	IND98-AU	165	158	0	95.76	4.24
10	O/IND/61/97* (1996)	IND96-AB	165	158	0	95.76	4.24

**Relationships to Reference Virus Strains**

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5	O/Geshur/ISR/85	ISR85-AA	639	558	0	87.32	12.68
6	O/TAI/189/87*	TAI87--B	527	456	3	86.53	13.47
7	O/MOR/1/91	MOR91-01	207	176	3	85.02	14.98
8	O/ISR/1/88	ISR88-01	193	164	5	84.97	15.03
9	O/PHI/5/95	PHI95-05	516	420	6	81.40	18.60
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11	O1/BFS 1860/UK/67	UKG67--A	639	509	0	79.66	20.34

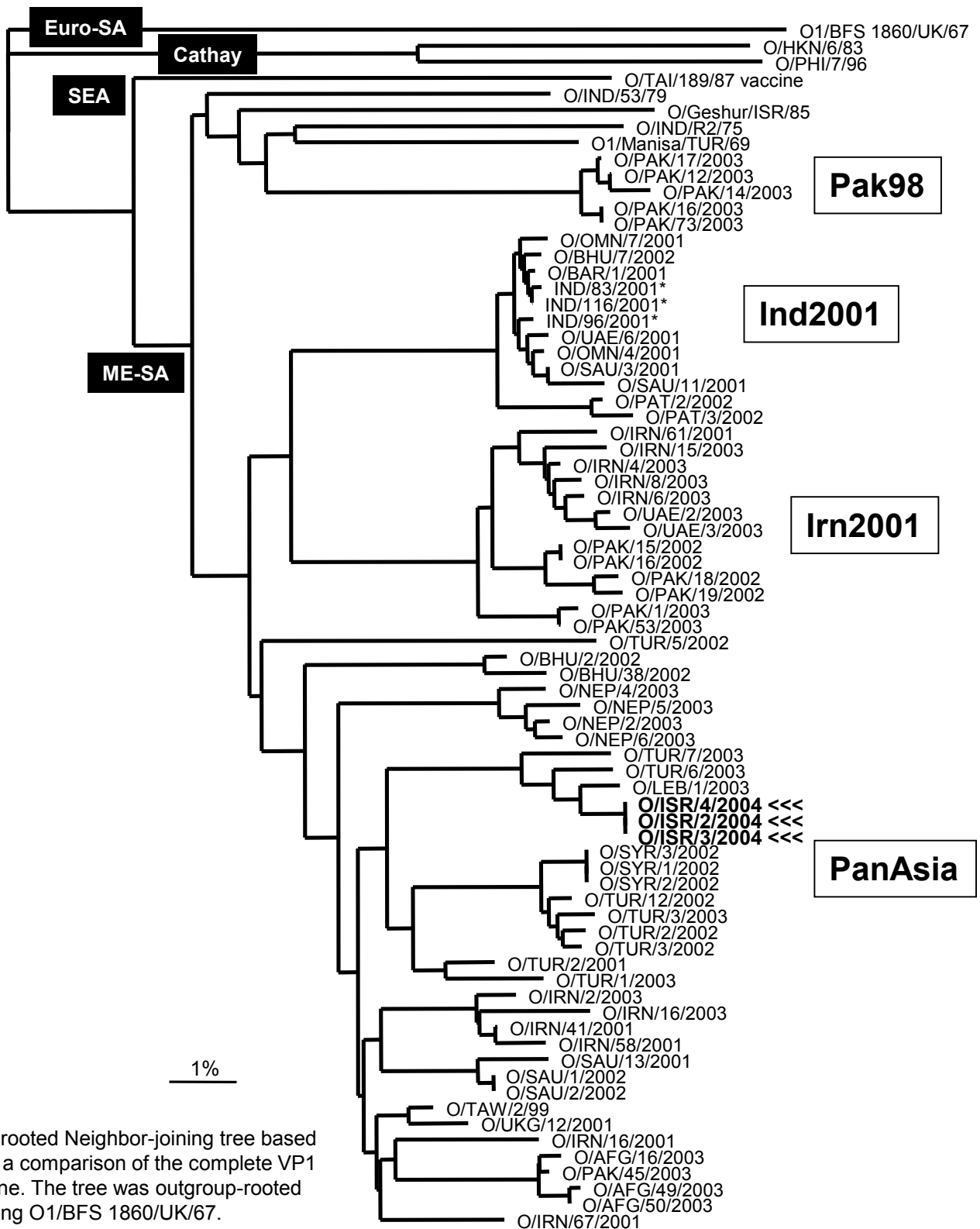
nt, nucleotides

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**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	Report date:	15/03/2004					
WRL Ref No: ISR/4/2004	Reported by N.J. Knowles:						
Date collected: 23/01/2004	Validated by J.-F. Valarcher:						
Date received: 23/02/2004	Topotype: ME-SA						
Species: Cattle	Genotype/strain: PanAsia						
Material used: PK3 BTy1	Sequence filename: ISR04-04.SEQ						
Region sequenced: VP1	Date sequence last updated: 05/03/2004						
RT-PCR primers: O-1C244F/NK61	Total no. of comparisons: 1369						
No. of Nt determined: 639							
No. of ambiguities: 0							
Gene length: 639							
Comments: We were unable to amplify the VP1 gene from the original cell culture material sent.							
<b>Ten Most Closely Related Viruses</b>							
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nt, nucleotides							
*, not a WRLFMD reference number							

Report on: O Israel 2004



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.