

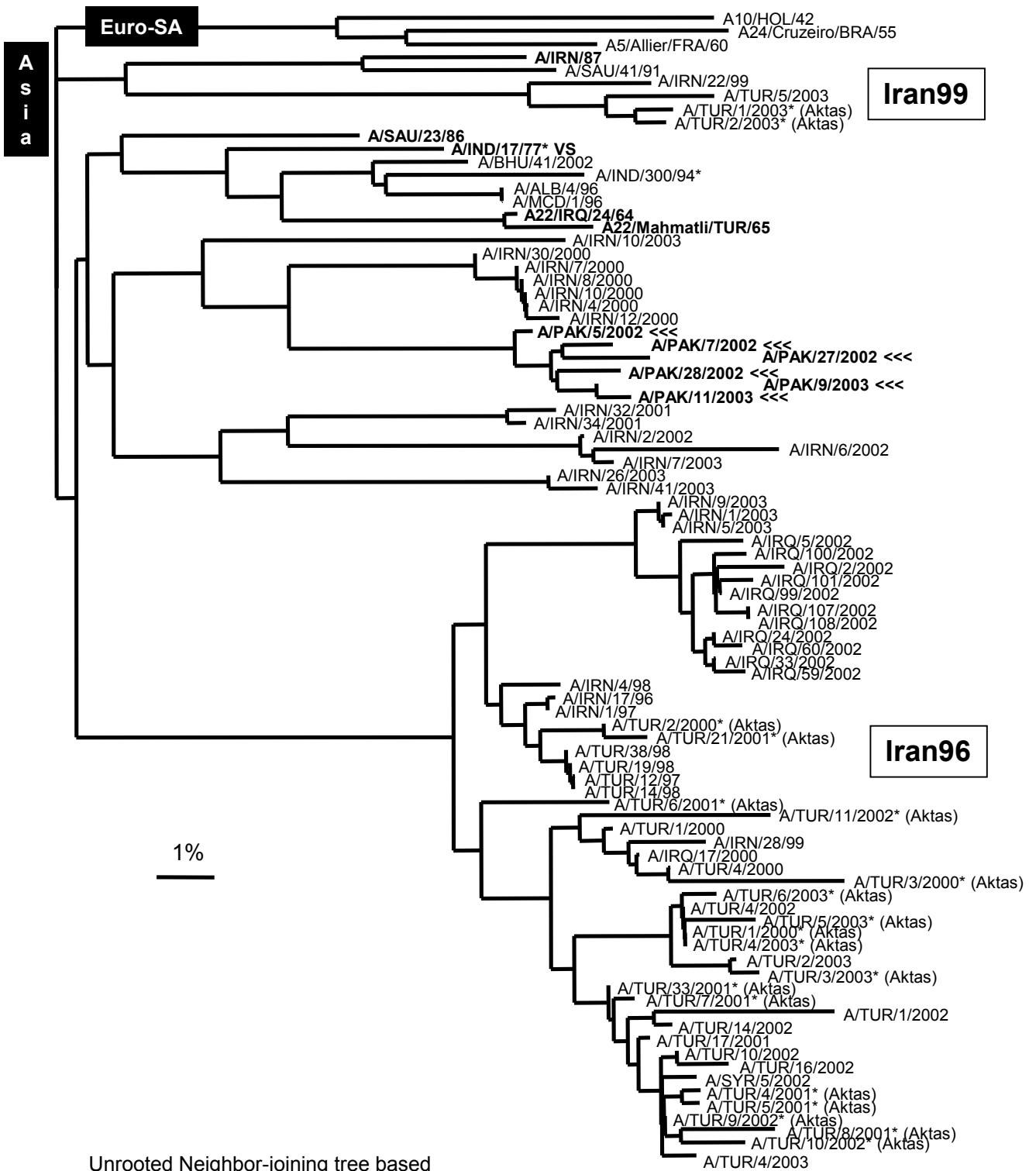
**Report from the Molecular Epidemiology Section of the Dept. of Exotic Disease Control to
the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A		Report date: 05/02/2004					
Virus isolate: PAK/28/2002							
Material used: 10% epith. susp.							
Region sequenced: VP1		Topotype: Asia					
RT-PCR primers: A-1C562F/NK61		Genotype/strain: not designated					
No. of nt determined: 639		Seq. filename: PAK02-28					
No. nt in gene: 639		Date seq. last updated: 13/09/2003					
No. of ambiguities: 0		Total no. of comparisons made: 561					
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/PAK/9/2003	PAK03-09	639	628	0	98.28	1.72
2	A/PAK/5/2002	PAK02-05	623	612	16	98.23	1.77
3	A/PAK/7/2002	PAK02-07	380	371	1	97.63	2.37
4	A/PAK/11/2003	PAK03-11	338	329	1	97.34	2.66
5	A/PAK/27/2002	PAK02-27	307	295	1	96.09	3.91
6	A/IRN/1/94	IRN94-01	163	150	8	92.02	7.98
7	A/IRN/30/2000	IRN00-30	610	555	14	90.98	9.02
8	A/IRN/8/2000	IRN00-08	426	384	5	90.14	9.86
9	A/IRN/12/2000	IRN00-12	631	568	5	90.02	9.98
10	A/IRN/7/2000	IRN00-07	615	552	21	89.76	10.24
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/SAU/41/91	SAU91-41	132	112	4	84.85	15.15
2	A/IRN/87	IRN87--M	634	536	2	84.54	15.46
3	A/IND/7/82 (1980)	IND82-07	253	209	16	82.61	17.39
4	A22/IRQ/24/64	IRQ64-24	639	525	0	82.16	17.84
5	A/TAI/2/97	TAI97-02	610	494	5	80.98	19.02
6	A/SAU/23/86	SAU86-23	302	243	13	80.46	19.54
7	A/IRN/22/99	IRN99-22	611	490	20	80.20	19.80
8	A/IRN/1/96	IRN96-01	355	280	11	78.87	21.13
9	A24/Cruzeiro/BRA/55	BRA55--C	639	498	0	77.93	22.07
nt, nucleotides							
*, not a WRLFMD reference number							

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the Head of the World Reference Laboratory for FMD (Non-QAU Form)**

Serotype: A	Report date: 05/02/2004						
Virus isolate: PAK/9/2003							
Material used: 10% epith. susp.							
Region sequenced: VP1	Topotype: Asia						
RT-PCR primers: A-1C562F/NK61	Genotype/strain: not designated						
No. of nt determined: 639	Seq. filename: PAK03-09						
No. nt in gene: 639	Date seq. last updated: 13/09/2003						
No. of ambiguities: 0	Total no. of comparisons made: 561						
Comments:							
Ten Most Closely Related Viruses							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/PAK/11/2003	PAK03-11	338	336	1	99.41	0.59
2	A/PAK/5/2002	PAK02-05	623	615	16	98.72	1.28
3	A/PAK/7/2002	PAK02-07	380	374	1	98.42	1.58
4	A/PAK/28/2002	PAK02-28	639	628	0	98.28	1.72
5	A/PAK/27/2002	PAK02-27	307	298	1	97.07	2.93
6	A/IRN/1/94	IRN94-01	163	151	8	92.64	7.36
7	A/IRN/30/2000	IRN00-30	610	559	14	91.64	8.36
8	A/IRN/6/94	IRN94-06	296	271	14	91.55	8.45
9	A/IRN/8/2000	IRN00-08	426	388	5	91.08	8.92
10	A/IRN/12/2000	IRN00-12	631	573	5	90.81	9.19
Relationships to Reference Virus Strains							
Pos.	Virus name	Filename	No. nt compared	No. nt matched	No. of ambiguities	% Identity	% Difference
1	A/IRN/87	IRN87--M	634	538	2	84.86	15.14
2	A/SAU/41/91	SAU91-41	132	112	4	84.85	15.15
3	A/IND/7/82 (1980)	IND82-07	253	208	16	82.21	17.79
4	A22/IRQ/24/64	IRQ64-24	639	525	0	82.16	17.84
5	A/TAI/2/97	TAI97-02	610	493	5	80.82	19.18
6	A/IRN/22/99	IRN99-22	611	492	20	80.52	19.48
7	A/SAU/23/86	SAU86-23	302	243	13	80.46	19.54
8	A/IRN/1/96	IRN96-01	355	282	11	79.44	20.56
9	A24/Cruzeiro/BRA/55	BRA55--C	639	497	0	77.78	22.22
nt, nucleotides							
*, not a WRLFMD reference number							

Report on: FMDV A Pakistan 2002-03



Unrooted Neighbor-joining tree based on a comparison of nt 469-639 of the VP1 gene. The tree was outgroup-rooted using the Euro-SA topotype viruses.

* not a WRLFMD ref. no.