

# FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

## Genotyping Report

Report Date for this Batch: 10 March 2016

FMDV type O

Country: Palestinian Autonomous Territories

Period: 2015

No. of samples: 6

BATCH: WRLFMD/2016/00008



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# FAO World Reference Laboratory for FMD Genotyping Report

IAH-P-EP-MEG-FOR-005-3

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Serotype: O	Report date: 09/03/2016
WRLFMD Ref No: PAT/1/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 244706 PAT, Nablus, Heart-1	
Location: Nablus, West Bank, Palestinian AT	Topotype: ME-SA
Date collected: 11/11/2015	Genotype/strain: PanAsia
Date received by WRLFMD: 09/02/2016	Sequence filename: PAT15-01.SEQ
Date received for sequencing: 07/03/2016	Date sequence last updated: 08/03/2016
Species: Sheep	No. of Nt determined: 639
Material used: BTy1 26/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4250
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 2 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/PAT/2/2015	PAT15-02	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/PAT/5/2015	PAT15-05	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/ISR/10/2015	ISR15-10	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/ISR/9/2015	ISR15-09	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/PAT/3/2015	PAT15-03	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/PAT/4/2015	PAT15-04	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/PAT/6/2015	PAT15-06	639	637	0	99.69	0.31	ME-SA	PanAsia
8	O/ISR/1/2015	ISR15-01	639	636	0	99.53	0.47	ME-SA	PanAsia
9	O/ISR/2/2015	ISR15-02	639	636	0	99.53	0.47	ME-SA	PanAsia
10	O/ISR/3/2015	ISR15-03	639	636	0	99.53	0.47	ME-SA	PanAsia
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/UKG/35/2001 (AJ539141)	UKG01-35	639	595	0	93.11	6.89	ME-SA	PanAsia
2	O/KUW/3/97 (DQ164904)	KUW97-03	639	587	0	91.86	8.14	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 <sup>BAL-09</sup>
7	O/BHU/3/2009 (KM921814)	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 <sup>TER-08</sup>
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	575	0	89.98	10.02	ME-SA	PanAsia-2 <sup>SAN-09</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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# FAO World Reference Laboratory for FMD Genotyping Report

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Serotype: O	Report date: 09/03/2016
WRLFMD Ref No: PAT/2/2015	Reported by: N.J. Knowles
Batch No: WRLFMD/2016/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 244706 PAT, Nablus, Heart-2	
Location: Nablus, West Bank, Palestinian AT	Topotype: ME-SA
Date collected: 11/11/2015	Genotype/strain: PanAsia
Date received by WRLFMD: 09/02/2016	Sequence filename: PAT15-02.SEQ
Date received for sequencing: 07/03/2016	Date sequence last updated: 08/03/2016
Species: Sheep	No. of Nt determined: 639
Material used: BTy1 26/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4250
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 2 days
Comments:	

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1	O/PAT/1/2015	PAT15-01	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/PAT/5/2015	PAT15-05	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/ISR/10/2015	ISR15-10	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/ISR/9/2015	ISR15-09	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/PAT/3/2015	PAT15-03	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/PAT/4/2015	PAT15-04	639	637	0	99.69	0.31	ME-SA	PanAsia
7	O/PAT/6/2015	PAT15-06	639	637	0	99.69	0.31	ME-SA	PanAsia
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3	O/IRN/31/2009	IRN09-31	639	583	0	91.24	8.76	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/IRN/8/2005	IRN05-08	639	583	0	91.24	8.76	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	581	0	90.92	9.08	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	580	0	90.77	9.23	ME-SA	PanAsia-2 <sup>BAL-09</sup>
7	O/BHU/3/2009 (KM921814)	BHU09-03	639	579	0	90.61	9.39	ME-SA	Ind-2001d
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	575	0	90.41	9.59	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	576	0	90.14	9.86	ME-SA	PanAsia-2 <sup>TER-08</sup>
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	575	0	89.98	10.02	ME-SA	PanAsia-2 <sup>SAN-09</sup>

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Batch No: WRLFMD/2016/00008	Checked by: K. Bachanek-Bankowska
Sender Ref: 244706 PAT, Nablus, Heart-3	
Location: Nablus, West Bank, Palestinian AT	Topotype: ME-SA
Date collected: 11/11/2015	Genotype/strain: PanAsia
Date received by WRLFMD: 09/02/2016	Sequence filename: PAT15-03.SEQ
Date received for sequencing: 07/03/2016	Date sequence last updated: 08/03/2016
Species: Sheep	No. of Nt determined: 639
Material used: BTy1 26/02/2016	No. of ambiguities: 0
Region sequenced: VP1	Gene length: 639
RT-PCR primers: O-1C244F/EUR-2B52R	Total no. of comparisons: 4250
O-1C272F/EUR-2B52R	Min. no. of nt for comparison: 600
	Total turn-around time: 29 days
	Sequencing time: 2 days
Comments:	

Most Closely Related Viruses									
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1	O/PAT/4/2015	PAT15-04	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/PAT/6/2015	PAT15-06	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/PAT/1/2015	PAT15-01	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/PAT/2/2015	PAT15-02	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/PAT/5/2015	PAT15-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/ISR/10/2015	ISR15-10	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/ISR/9/2015	ISR15-09	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/ISR/1/2015	ISR15-01	639	634	0	99.22	0.78	ME-SA	PanAsia
9	O/ISR/2/2015	ISR15-02	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/ISR/3/2015	ISR15-03	639	634	0	99.22	0.78	ME-SA	PanAsia
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Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
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2	O/KUW/3/97 (DQ164904)	KUW97-03	639	585	0	91.55	8.45	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 <sup>BAL-09</sup>
7	O/BHU/3/2009 (KM921814)	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 <sup>TER-08</sup>
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	573	0	89.67	10.33	ME-SA	PanAsia-2 <sup>SAN-09</sup>

nt, nucleotides

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Serotype: O WRLFMD Ref No: PAT/4/2015 Batch No: WRLFMD/2016/00008 Sender Ref: 244706 PAT, Nablus, Heart-4 Location: Nablus, West Bank, Palestinian AT Date collected: 11/11/2015 Date received by WRLFMD: 09/02/2016 Date received for sequencing: 07/03/2016 Species: Sheep Material used: BTy1 26/02/2016 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/03/2016 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska Topotype: ME-SA Genotype/strain: PanAsia Sequence filename: PAT15-04.SEQ Date sequence last updated: 08/03/2016 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4250 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 2 days
Comments:	

Most Closely Related Viruses									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
1	O/PAT/3/2015	PAT15-03	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/PAT/6/2015	PAT15-06	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/PAT/1/2015	PAT15-01	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/PAT/2/2015	PAT15-02	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/PAT/5/2015	PAT15-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/ISR/10/2015	ISR15-10	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/ISR/9/2015	ISR15-09	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/ISR/1/2015	ISR15-01	639	634	0	99.22	0.78	ME-SA	PanAsia
9	O/ISR/2/2015	ISR15-02	639	634	0	99.22	0.78	ME-SA	PanAsia
10	O/ISR/3/2015	ISR15-03	639	634	0	99.22	0.78	ME-SA	PanAsia
Most Closely Related Reference Viruses									
(see <a href="http://www.wrlfmd.org/fmd_genotyping/prototypes.htm">http://www.wrlfmd.org/fmd_genotyping/prototypes.htm</a> )									
Pos.	Virus name	Filename	No. nt comp.	No. nt match.	No. of ambig.	% Id.	% Diff.	Topotype	Strain
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2	O/KUW/3/97 (DQ164904)	KUW97-03	639	585	0	91.55	8.45	ME-SA	Ind-2001a
3	O/IRN/31/2009	IRN09-31	639	581	0	90.92	9.08	ME-SA	PanAsia-2 <sup>FAR-09</sup>
4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 <sup>BAL-09</sup>
7	O/BHU/3/2009 (KM921814)	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 <sup>TER-08</sup>
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	573	0	89.67	10.33	ME-SA	PanAsia-2 <sup>SAN-09</sup>

nt, nucleotides

\*, not a WRLFMD reference number

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Serotype: O WRLFMD Ref No: PAT/5/2015 Batch No: WRLFMD/2016/00008 Sender Ref: 244706 PAT, Nablus, IBRS Pas 1 from B/mice Location: Nablus, West Bank, Palestinian AT Date collected: 18/11/2015 Date received by WRLFMD: 09/02/2016 Date received for sequencing: 07/03/2016 Species: Sheep Material used: BTy1 25/02/2016 Region sequenced: VP1 RT-PCR primers: O-1C244F/EUR-2B52R O-1C272F/EUR-2B52R	Report date: 09/03/2016 Reported by: N.J. Knowles Checked by: K. Bachanek-Bankowska  Topotype: ME-SA Genotype/strain: PanAsia Sequence filename: PAT15-05.SEQ Date sequence last updated: 08/03/2016 No. of Nt determined: 639 No. of ambiguities: 0 Gene length: 639 Total no. of comparisons: 4250 Min. no. of nt for comparison: 600 Total turn-around time: 29 days Sequencing time: 2 days
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## Most Closely Related Viruses

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1	O/PAT/1/2015	PAT15-01	639	639	0	100.00	0.00	ME-SA	PanAsia
2	O/PAT/2/2015	PAT15-02	639	639	0	100.00	0.00	ME-SA	PanAsia
3	O/ISR/10/2015	ISR15-10	639	637	0	99.69	0.31	ME-SA	PanAsia
4	O/ISR/9/2015	ISR15-09	639	637	0	99.69	0.31	ME-SA	PanAsia
5	O/PAT/3/2015	PAT15-03	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/PAT/4/2015	PAT15-04	639	637	0	99.69	0.31	ME-SA	PanAsia
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## Most Closely Related Reference Viruses

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5	O/PAT/5/2015	PAT15-05	639	637	0	99.69	0.31	ME-SA	PanAsia
6	O/ISR/10/2015	ISR15-10	639	635	0	99.37	0.63	ME-SA	PanAsia
7	O/ISR/9/2015	ISR15-09	639	635	0	99.37	0.63	ME-SA	PanAsia
8	O/ISR/1/2015	ISR15-01	639	634	0	99.22	0.78	ME-SA	PanAsia
9	O/ISR/2/2015	ISR15-02	639	634	0	99.22	0.78	ME-SA	PanAsia
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4	O/IRN/8/2005	IRN05-08	639	581	0	90.92	9.08	ME-SA	PanAsia-2
5	O/OMN/7/2001 (DQ164941)	OMN01-07	639	579	0	90.61	9.39	ME-SA	Ind-2001b
6	O/IRN/18/2010	IRN10-18	639	578	0	90.45	9.55	ME-SA	PanAsia-2 <sup>BAL-09</sup>
7	O/BHU/3/2009 (KM921814)	BHU09-03	639	577	0	90.30	9.70	ME-SA	Ind-2001d
8	O/UAE/4/2008 (KM921876)	UAE08-04	636	573	0	90.09	9.91	ME-SA	Ind-2001c
9	O/TUR/257/2008* (FMDI)	TUR08-AD	639	574	0	89.83	10.17	ME-SA	PanAsia-2 <sup>TER-08</sup>
10	O/TUR/264/2009* (FMDI)	TUR09-AK	639	573	0	89.67	10.33	ME-SA	PanAsia-2 <sup>SAN-09</sup>

nt, nucleotides

\*, not a WRLFMD reference number

Assembled with Report Generator v4.4

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# Report on FMDV O in the Palestinian AT in 2015

Batch: WRLFMD/2016/0008

◆ indicates viruses in this batch

Software: MEGA 6.06

Analysis

----- Phylogeny Reconstruction

----- All Selected Taxa

----- Neighbor-joining

Phylogeny Test

----- Bootstrap method

----- 1000

Substitution Model

----- Nucleotide

----- Kimura 2-parameter model

----- d: Transitions + Transversions

Rates and Patterns

----- Uniform rates

----- Same (Homogeneous)

Data Subset to Use

----- Pairwise deletion

----- 1st+2nd+3rd+Non-Coding

No. of Sites : 645

No Of Bootstrap Reps = 1000

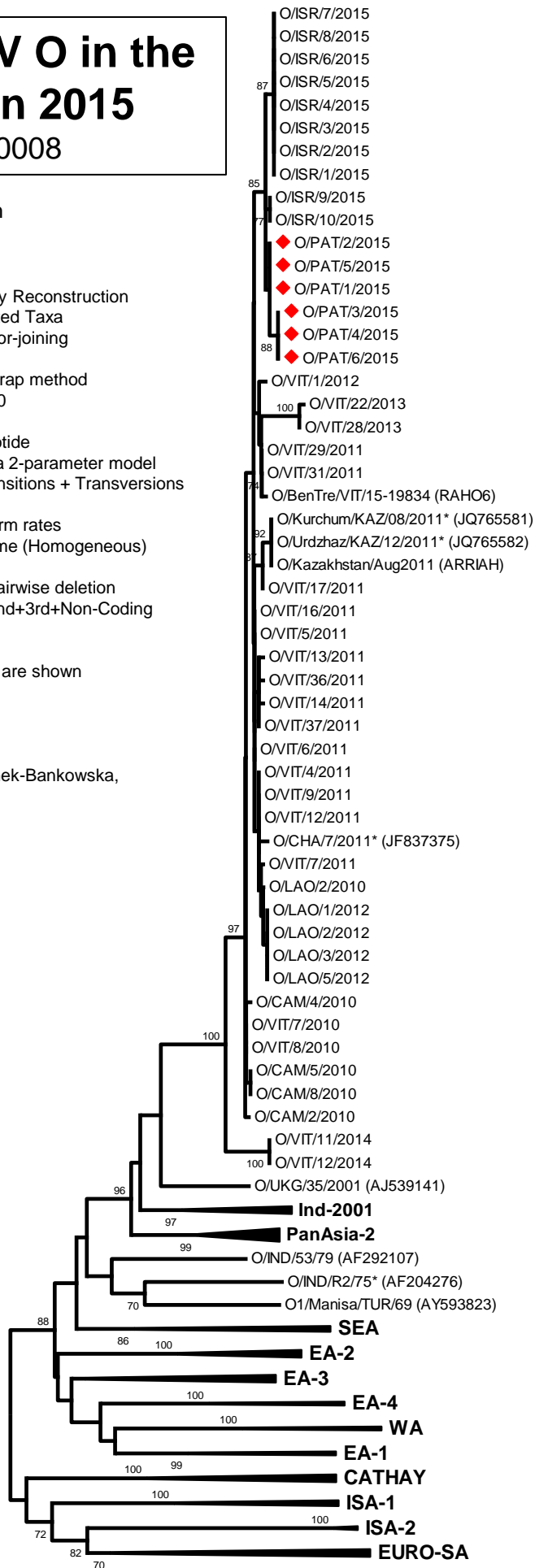
Only bootstrap values of 70% and above are shown

\*, not a WRLFMD Ref. No.

N.J. Knowles, J. Wadsworth & K. Bachanek-Bankowska,  
10 March 2016

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PanAsia

ME-SA