



Федеральное государственное бюджетное учреждение
«Федеральный центр охраны здоровья животных» (ФГБУ «ВНИИЗЖ»)



Update on the LSD epidemiology in Russia 2015-2018

*SGE LSD9 Meeting of the Standing Group of Experts on Lumpy Skin Disease in South Europe region under the GF-TADs
Athens, Greece, on 16-17 October 2019.*

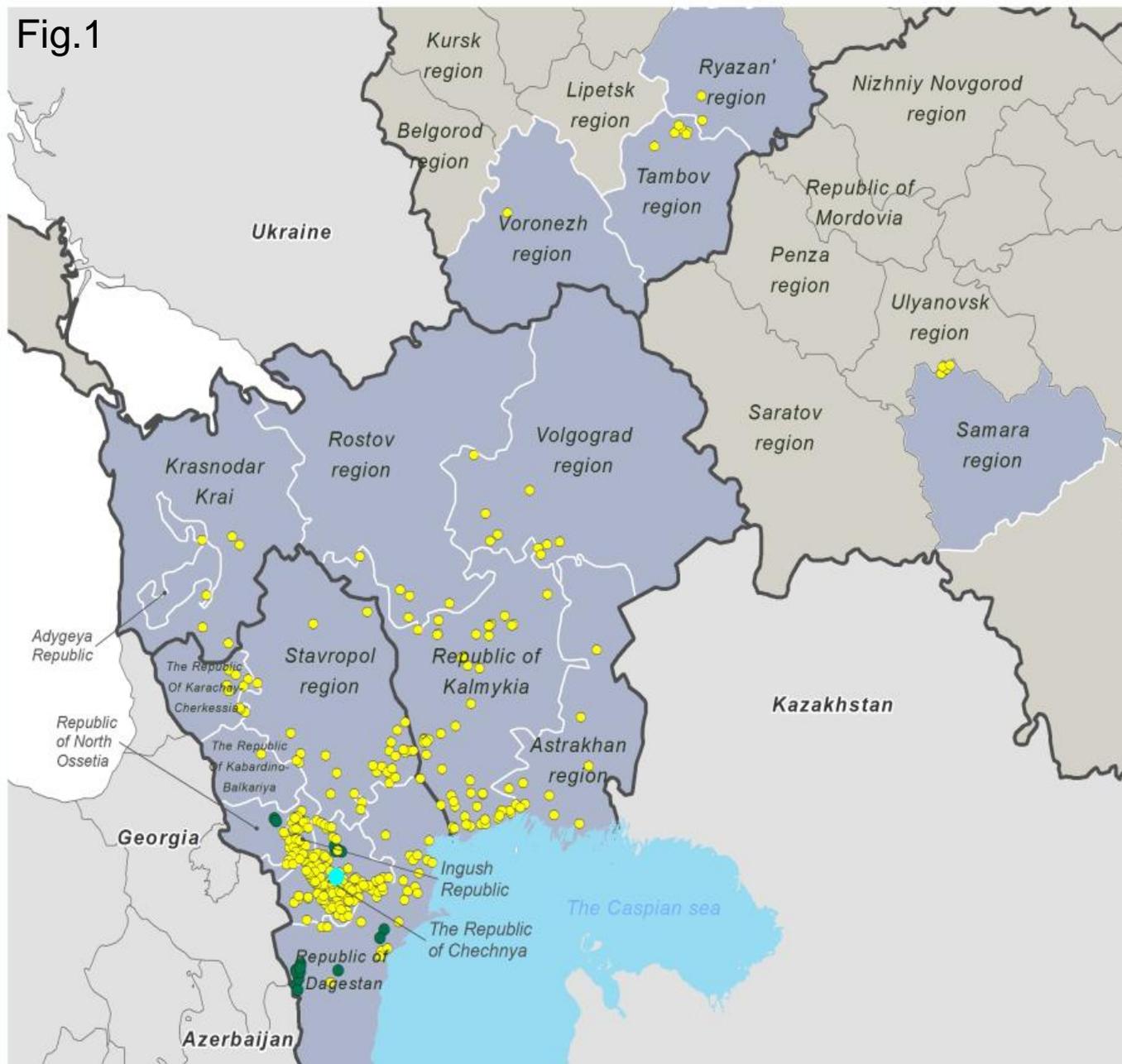


LSD infected region of the Russian Federation 2015 - 2016



according to the OIE
on 31.12.2016

Fig.1



● LSD infected settlements
(according to the OIE on 31.12.2016)

- Krasnodar Krai: 5
- Republic of Dagestan: 28
- Republic of Kalmykia: 57
- Astrakhan region: 10
- The Republic of Chechnya: 108
- Stavropol Krai: 30
- Volgograd oblast: 9
- Ingush Republic: 35
- Rostov region: 5
- The Republic Of Karachay-Cherkessia: 10
- Adygeya Republic: 1
- Voronezh region: 1
- The Republic Of Kabardino-Balkariya: 1
- Tambov region: 6
- Ryazan' region: 2
- Samara' region: 5

● LSD infected settlements
(according to the OIE on 31.12.2015)

- Republic of Dagestan: 11
- The Republic Of Chechnya: 4
- The Republic of North Ossetia: 2

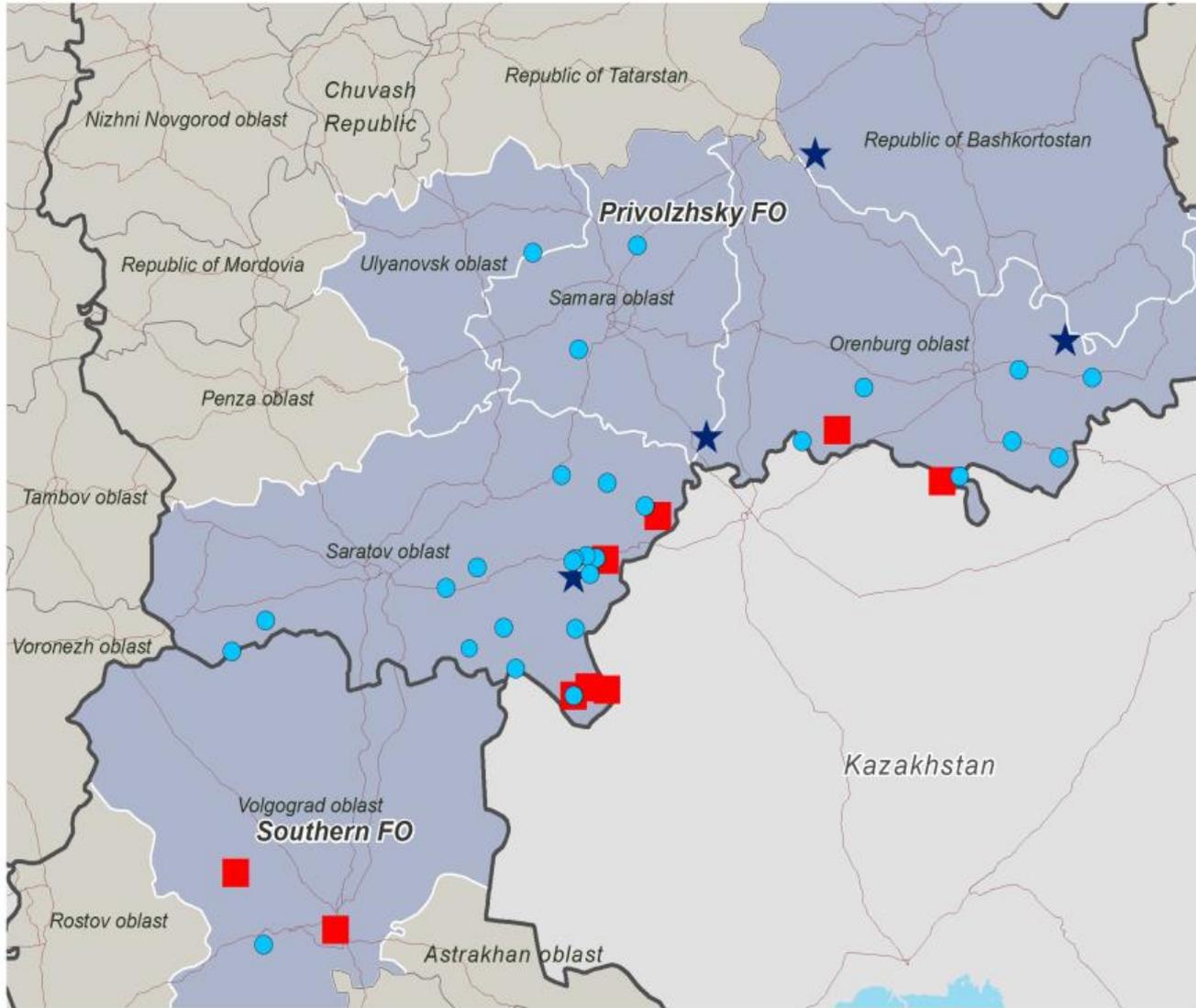


Lumpy skin disease-infected regions of the RF in 2017 .

Fig.2



As of December 29, 2017



Legend :

LSD outbreaks
(as of December 29, 2017, according to the OIE data)

- Volgograd Oblast: 3
- Orenburg Oblast: 10
- The Republic of Bashkortostan: 1
- Samara Oblast: 3
- Saratov Oblast: 24
- Ulyanovsk Oblast: 1

- Untyped strain
- Field strain
- Vaccine strain
- Road

0 125 250 Km



Fig.3 Analysis of LSDV in 2015-2016 by the GPCR gene

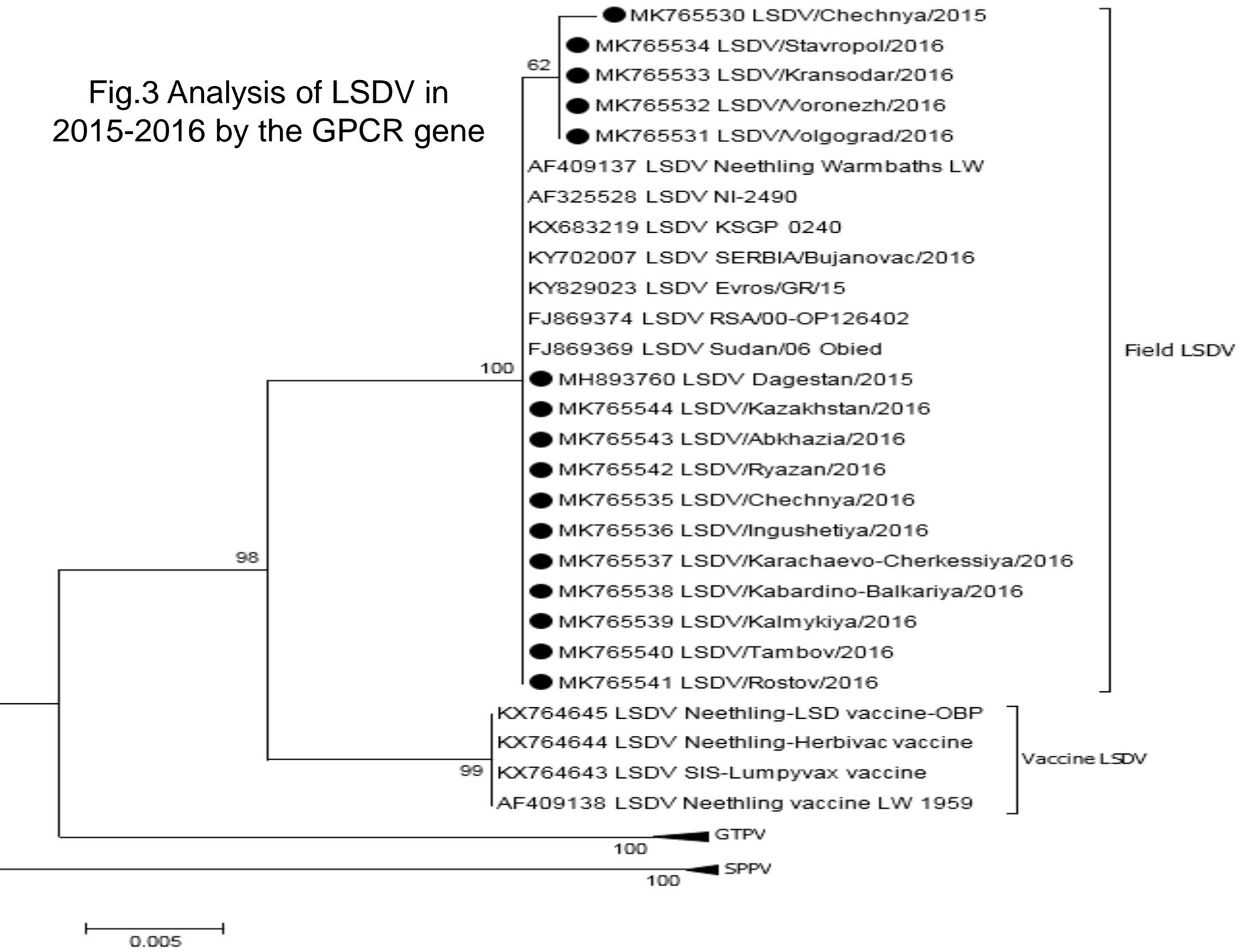
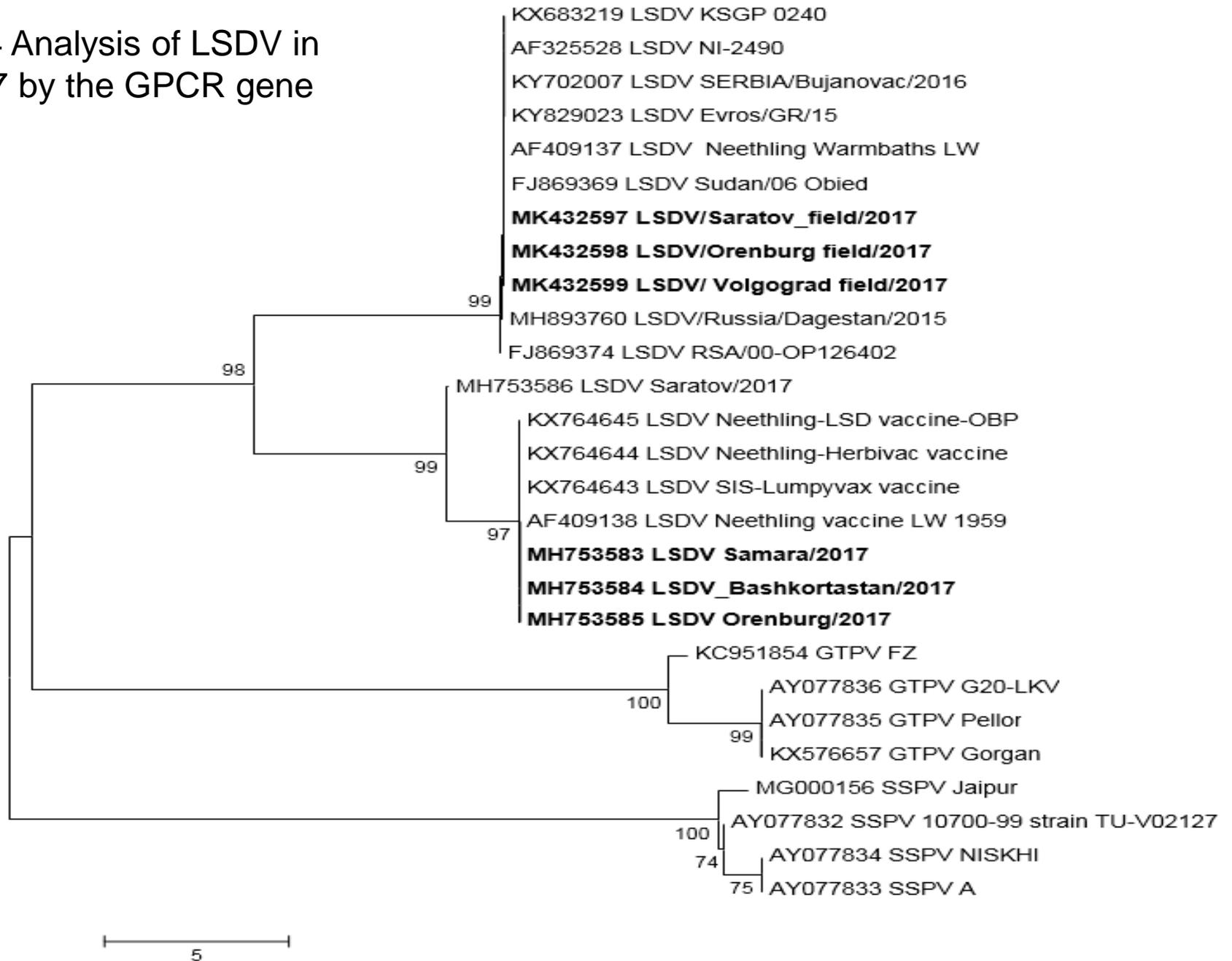


Fig.4 Analysis of LSDV in 2017 by the GPCR gene

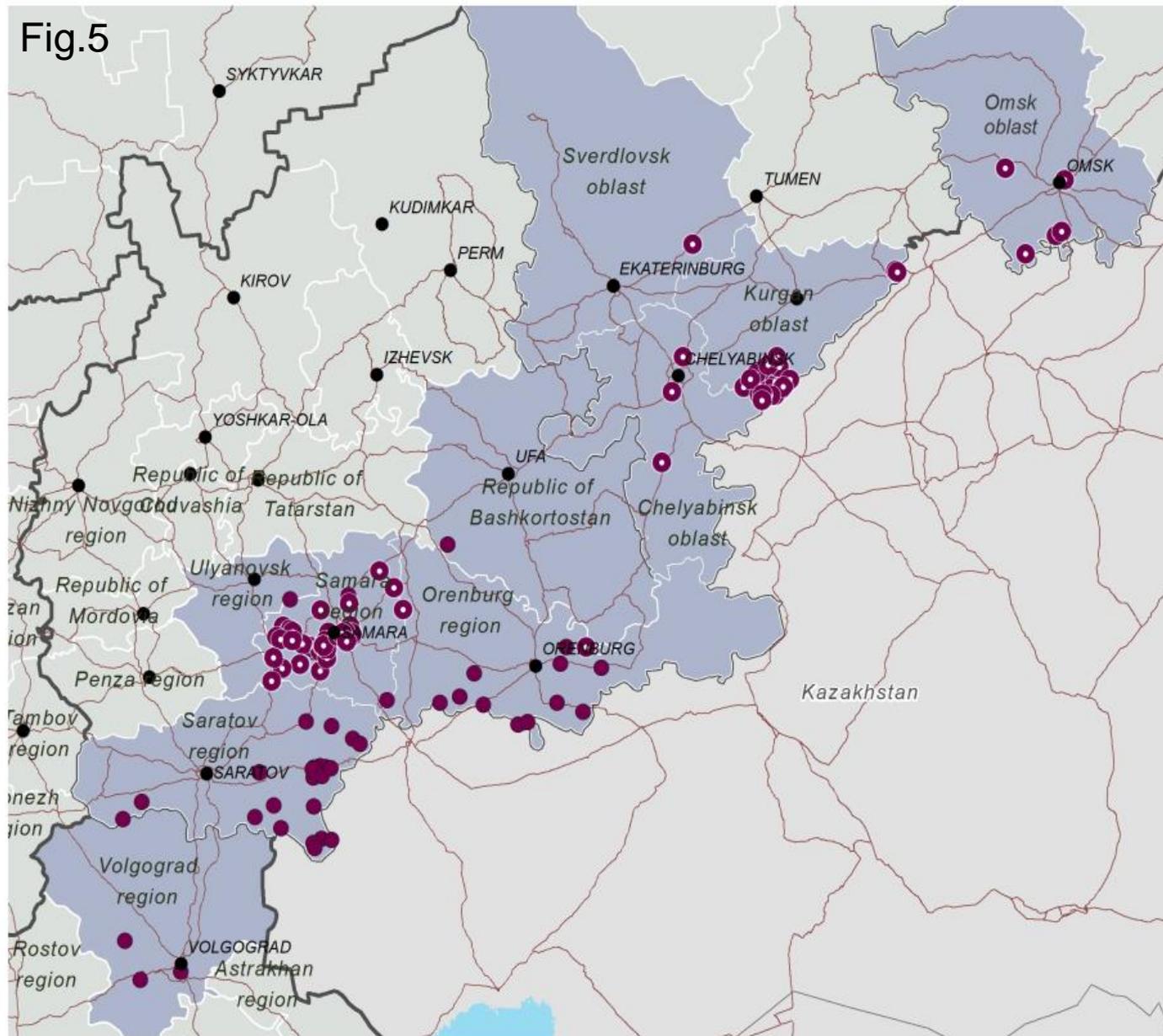




according to the OIE,
as of 28.12.2018

LSD infected region of the Russian Federation, 2017 - 2018

Fig.5



Legend:

● LSD infected settlements/area
(according to the OIE, as of 29.12.2017)

- Volgograd region: 3 i.s.
- Orenburg region: 11 i.s.
- Saratov region: 24 i.s.
- Republic of Bashkortostan: 1 i.s.
- Samara region: 3 i.s.
- Ulyanovsk region: 1 i.s.

● LSD infected settlements/area
(according to the OIE, as of 28.12.2018)

- Kurgan Oblast: 21 i.s
- Omsk Oblast: 5 i.s
- Orenburg Oblast: 1 i.s
- Samara Oblast: 32 i.s
- Saratov Oblast: 1 i.s
- Sverdlovsk Oblast: 1 i.s
- Chelyabinsk Oblast: 4 i.s

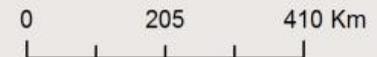
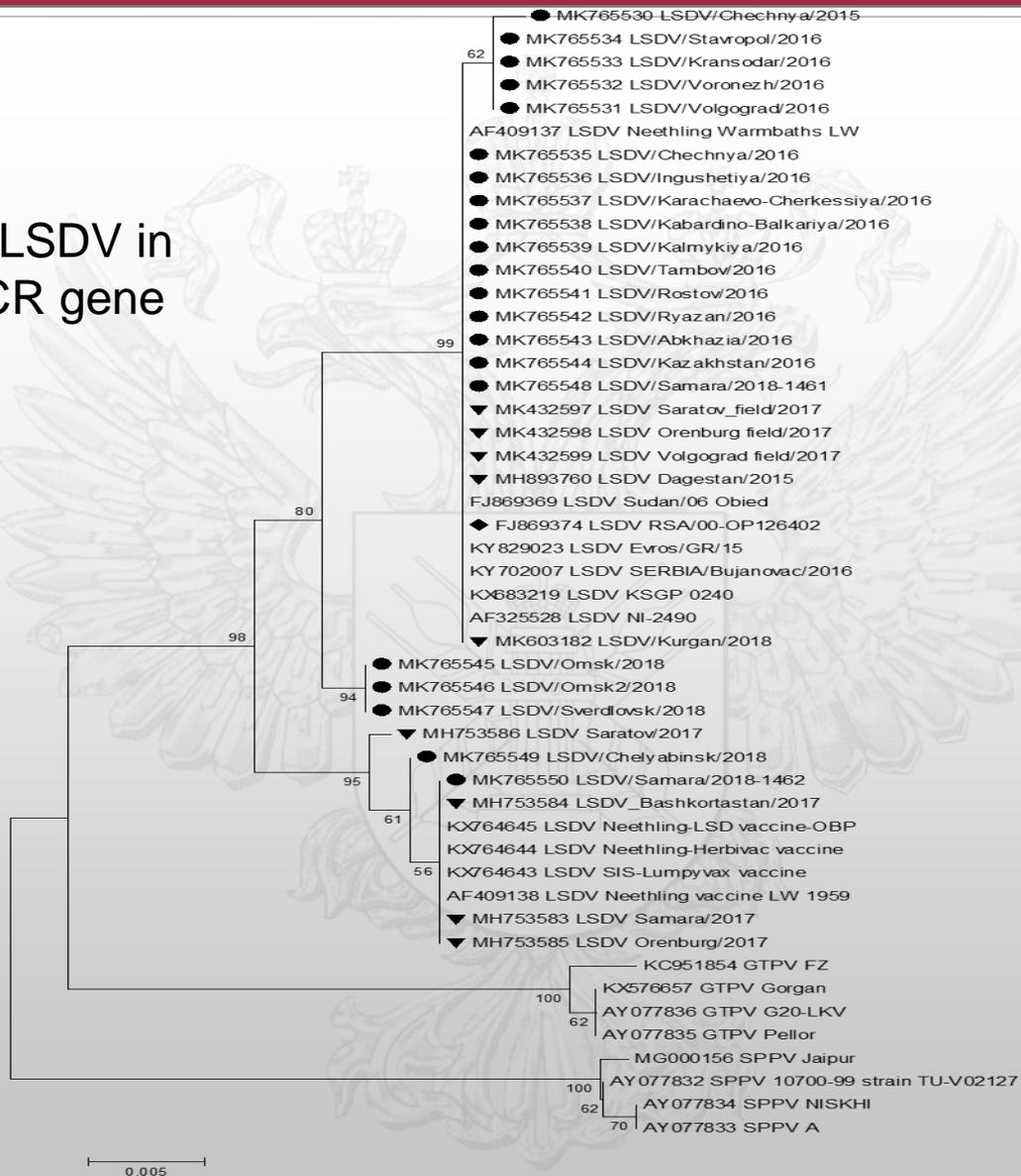


Fig.6 Analysis of LSDV in 2018 by the GPCR gene



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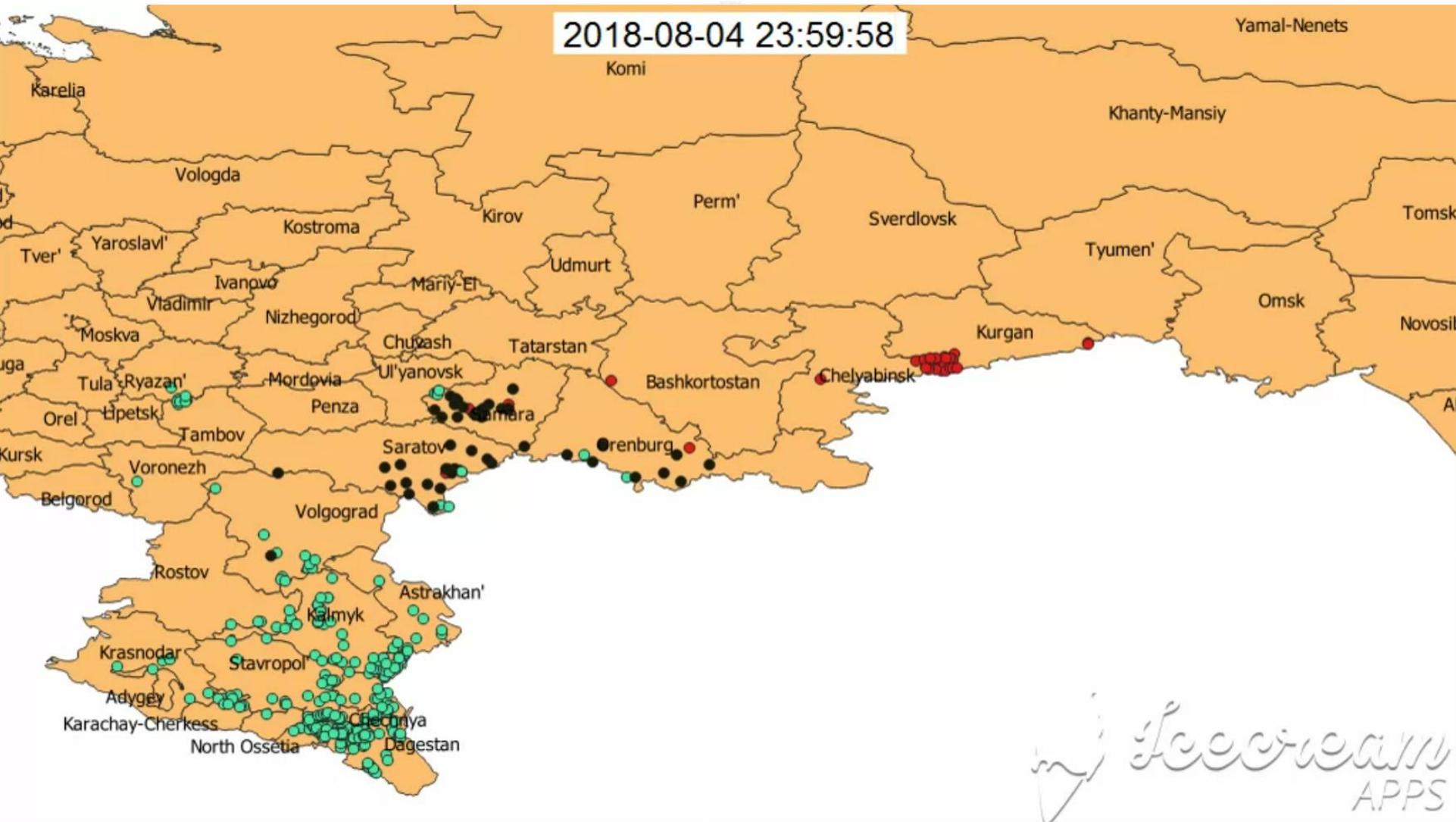
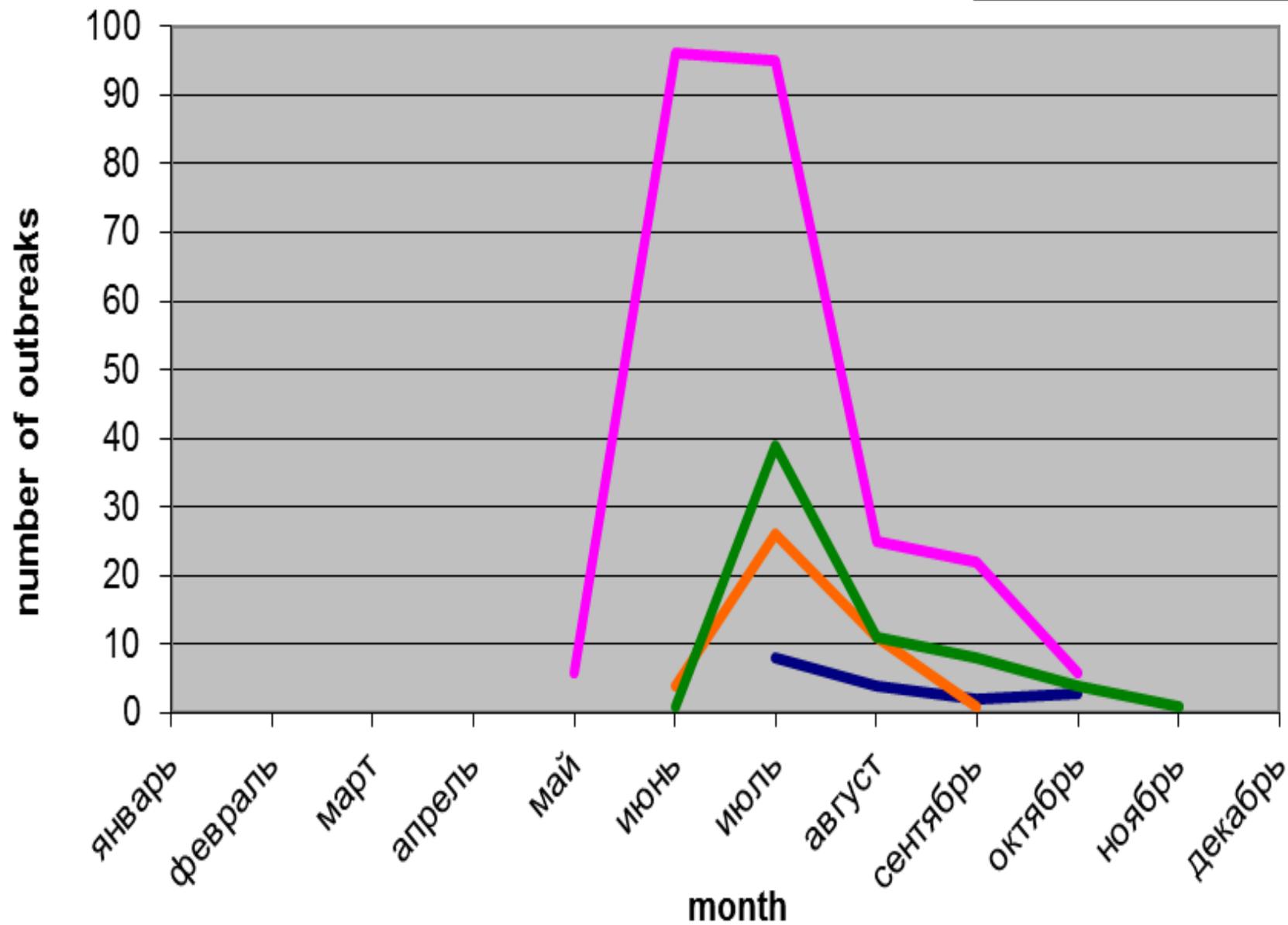


Fig.7 Seasonality



Experimental evaluation of Saratov/2017

Table 1. Schematic of animal allocation

(“-“ – the first group of in-contact animals (C1), “+” – virus inoculated animals (IN))

№ animals									
C1-1	IN-2	C1-3	IN-4	C1-5	IN-6	C1-7	IN-8	C1-9	IN-10
-	+	-	+	-	+	-	+	-	+



Table 2. Positioning of the second group of in-contact animals (C2)

№ animals														
C1-1	IN-2	C1-3	C2-3	IN-4	C1-5	C2-4	IN-6	C2-1	C1-7	IN-8	C2-5	C1-9	C2-2	IN-10
-/+	-/-	+/+	-/-	+/+	+/+	-/-	+/-	-/-	+/+	-/+	-/-	+/+	-/-	+/+

“-/-“ - no clinical signs, “-/+” - mild clinical signs, “+/+” - pronounced clinical signs

At post-inoculation (p.i.) day 33, another group of five bulls (C2 group) was introduced



Thank you

