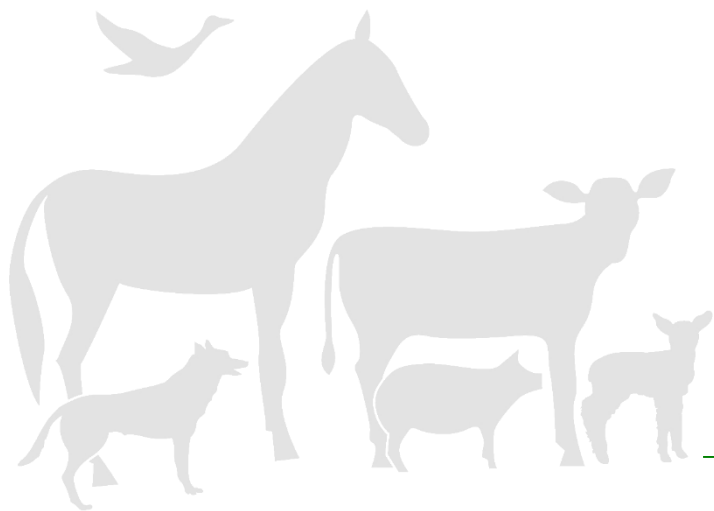
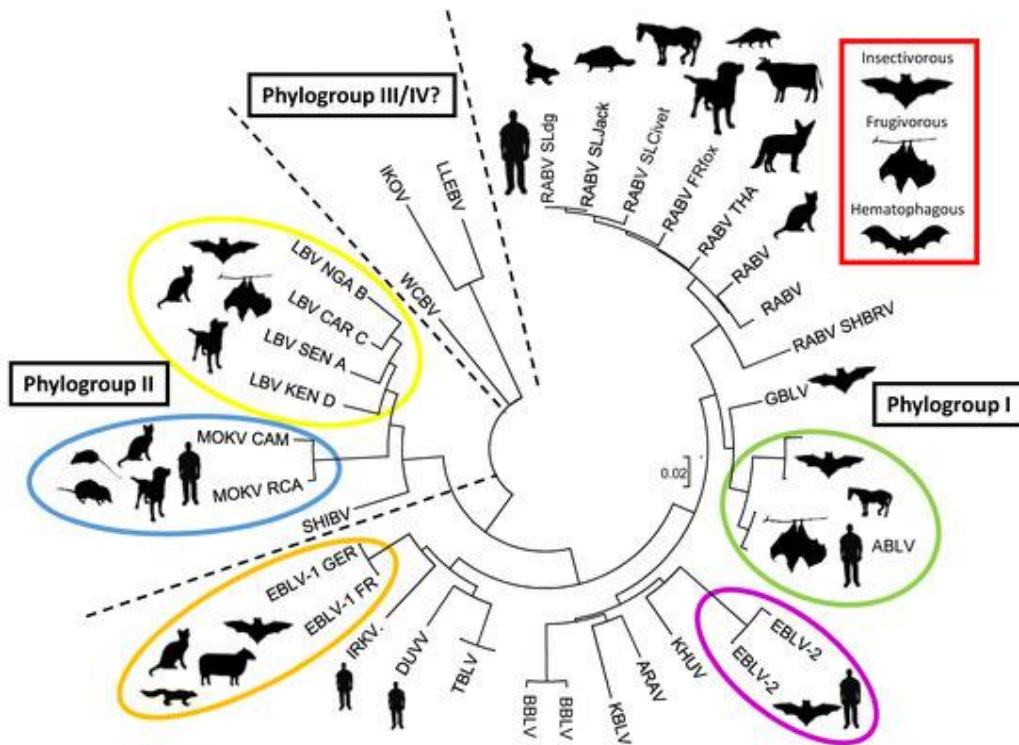


Molecular epidemiology of lyssaviruses in Poland



Anna Orłowska

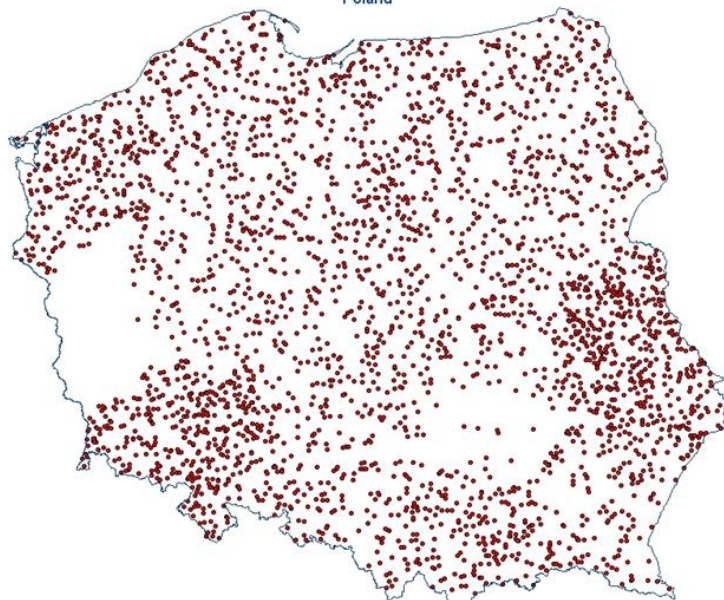


Three / four phylogroups formed based on cross-reactions with neutralizing antibodies, virus pathogenicity, and genetic distance

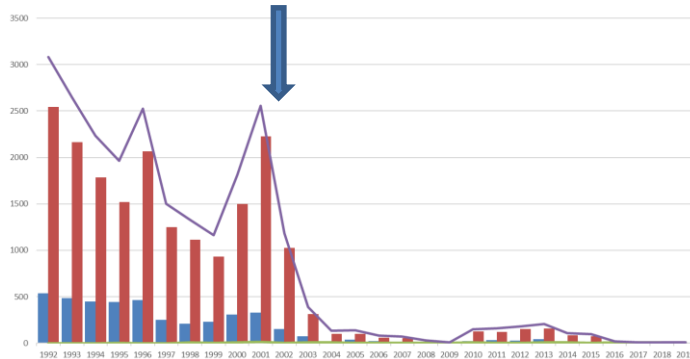
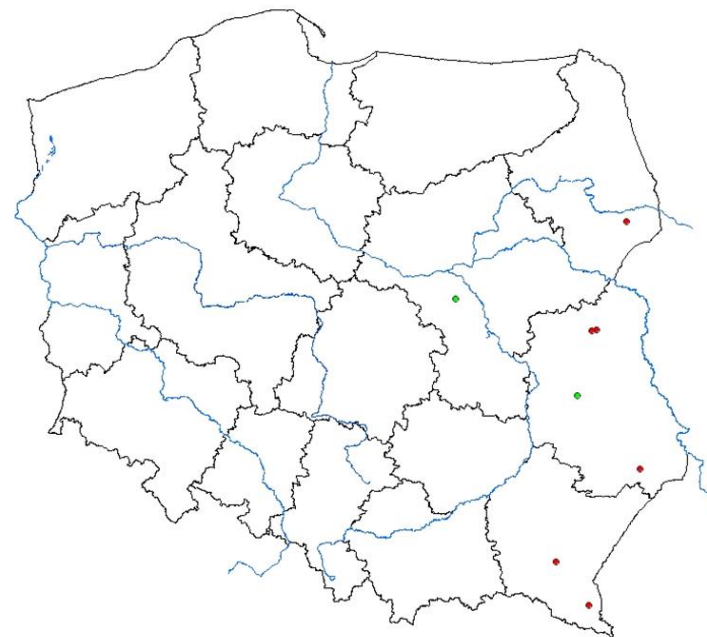
17 Lyssavirus species

genetic distance less than 80-82% degree of nucleotide sequence identity for the N gene, or 80-81% degree of nucleotide sequence identity of the coding regions within the N+P+M+G+L genes

Poland

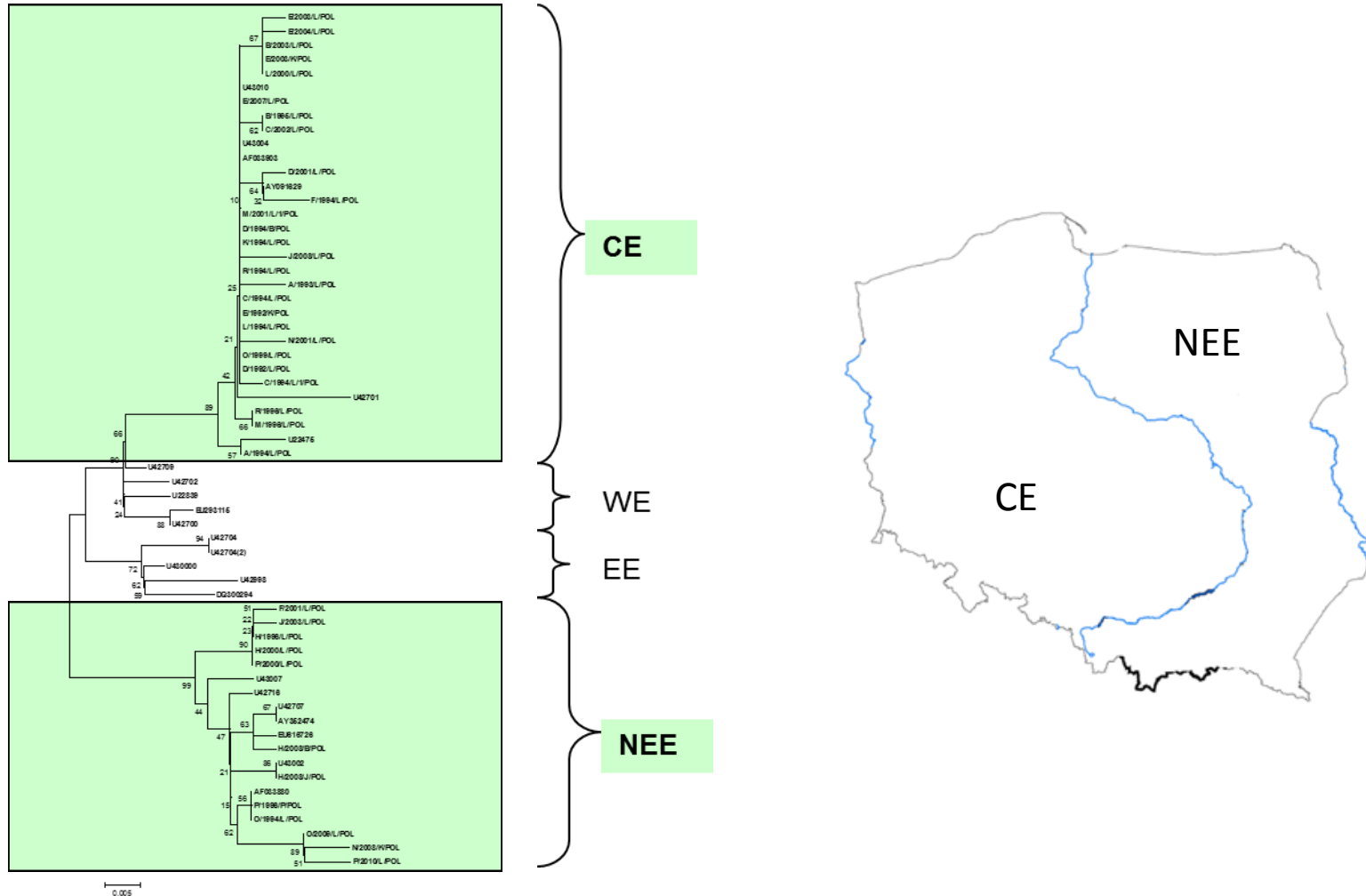


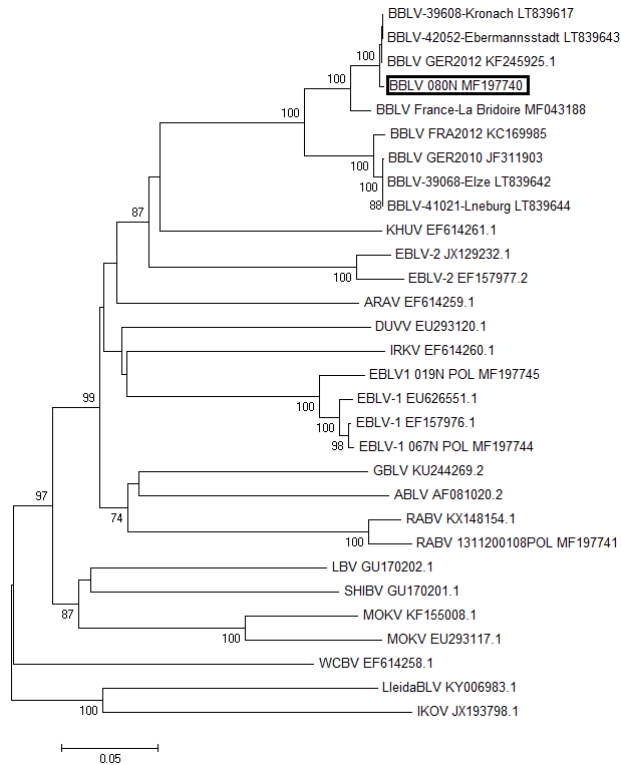
1992
NEE, CE, EE, WE



2009

1998-2008



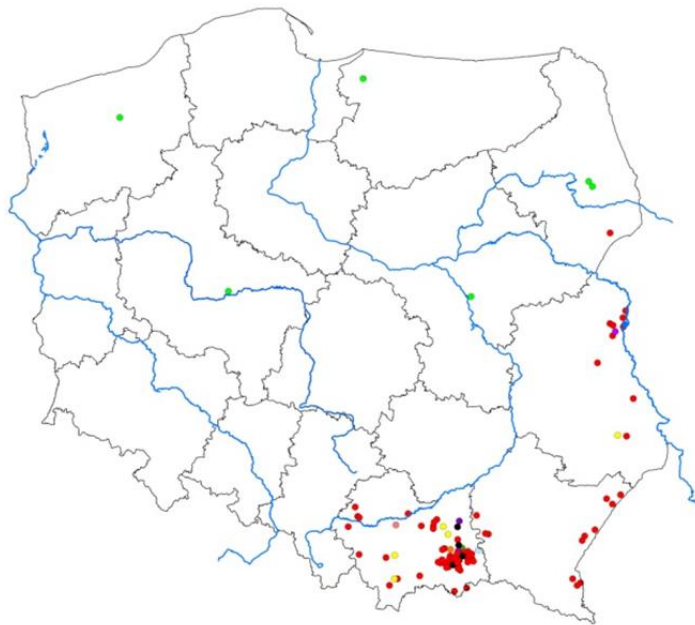


01/2008 - fox,
Podlaskie voievodship

RABV C



Małopolskie- rabies outbreak- 2010

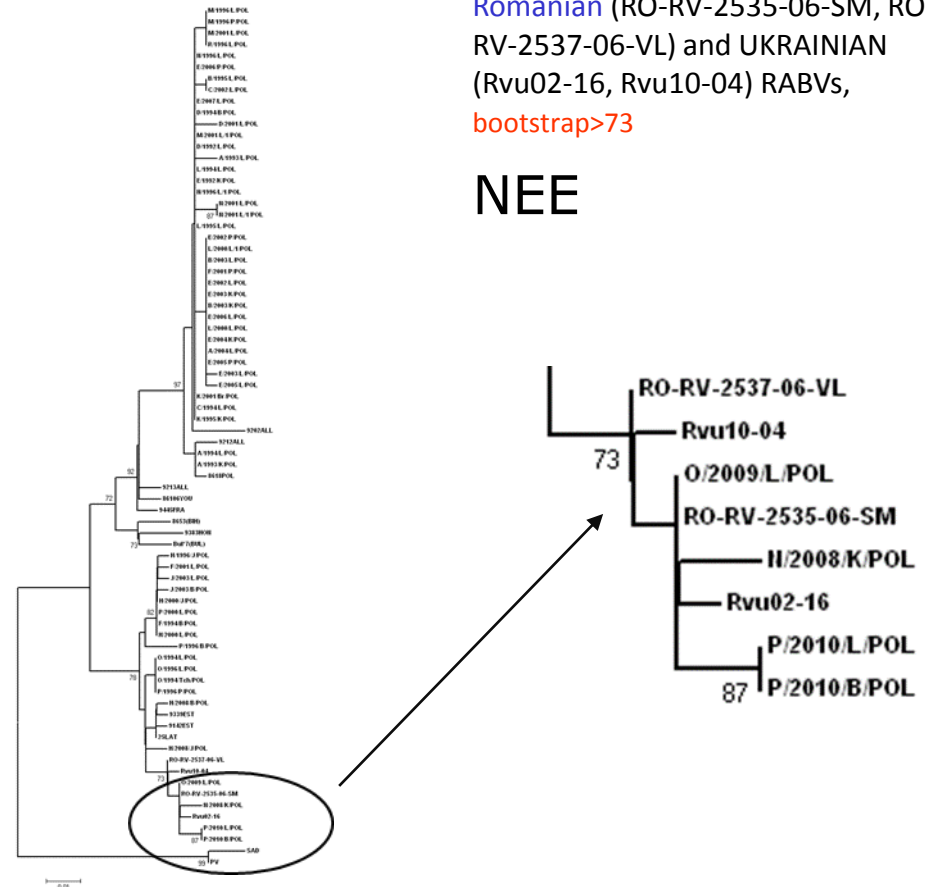


2010

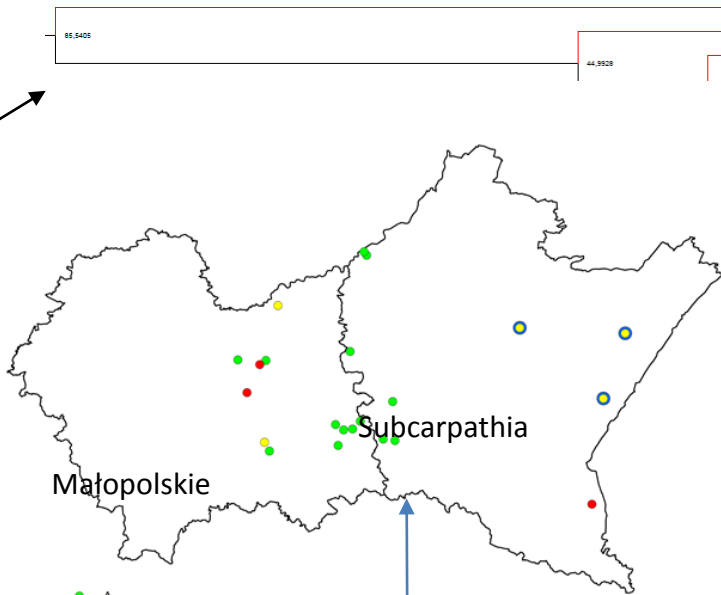
The highest homology to:

Romanian (RO-RV-2535-06-SM, RO-RV-2537-06-VL) and UKRAINIAN (Rvu02-16, Rvu10-04) RABVs, bootstrap>73

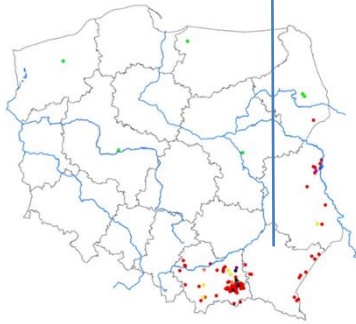
NEE



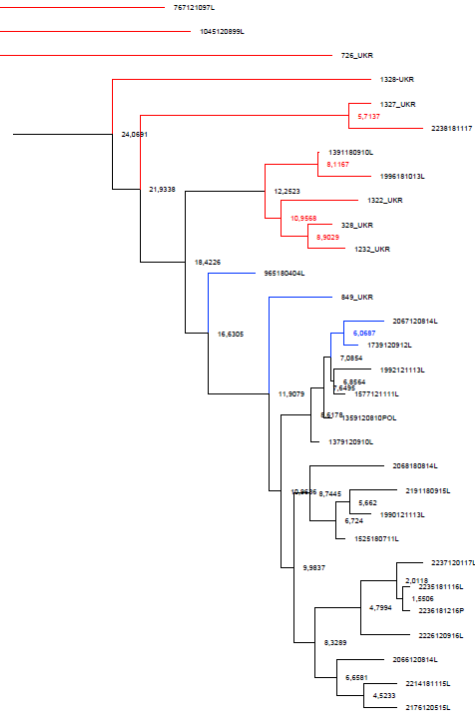
85,54



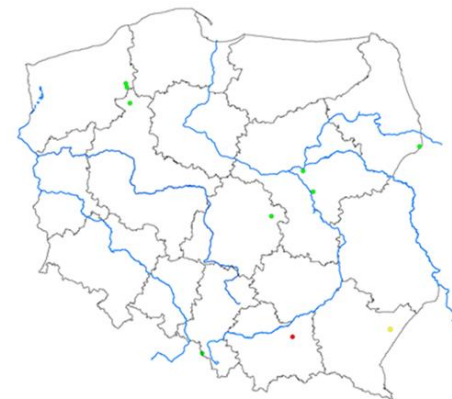
- A
- B
- C
- D



2010

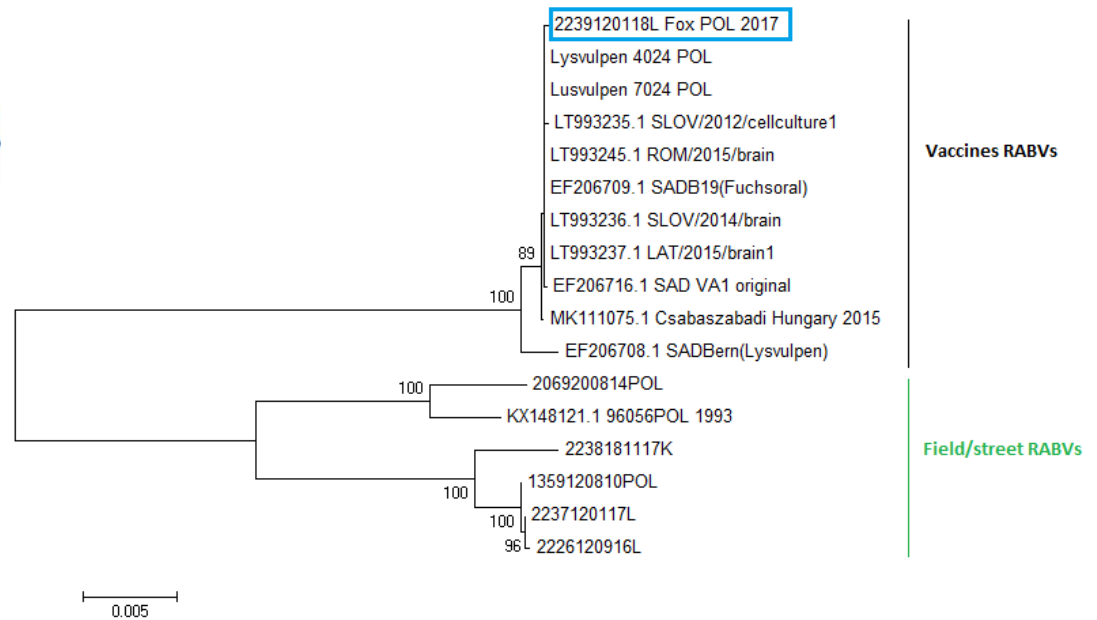
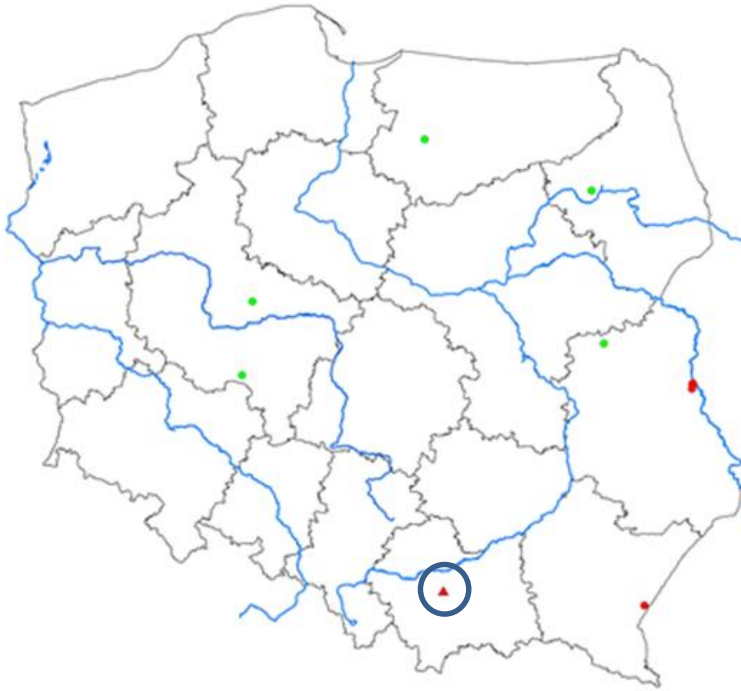


Evolution rate:
 $5.368 \cdot 10^{-4}$

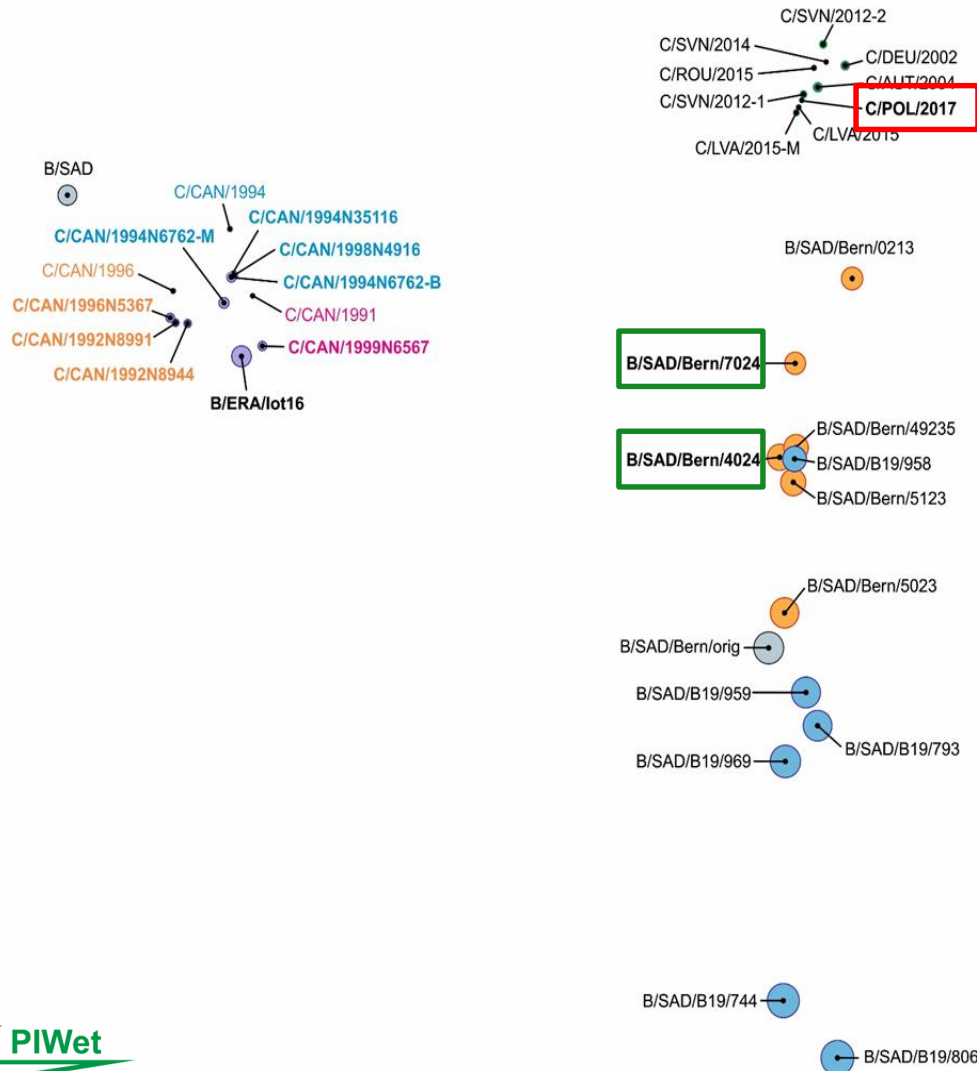


2017

Vaccine-induced RABV



Manhattan Distance Matrix Analysis



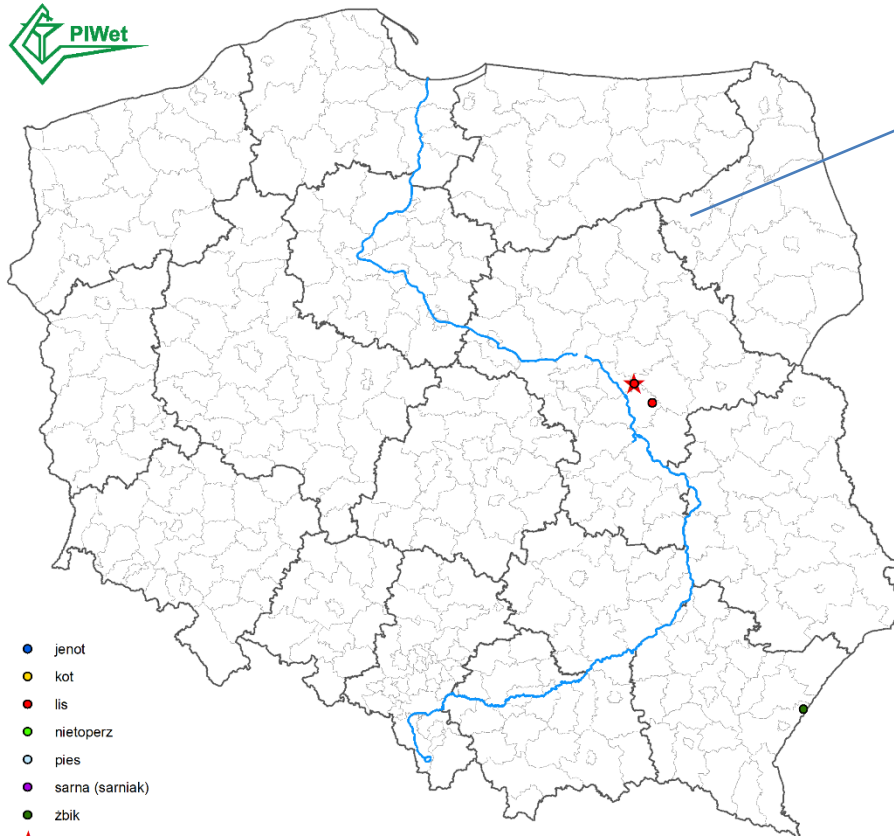
Population-based analysis of viruses isolated from a case of rabies caused by "vaccine-derived" RABV and viruses that were included in Lysvulpen oral vaccines derived from SAD/Bern/orig showed that isolate C/POL/2017 does not directly associate with related "vaccine-derived" viruses.

Simultaneously!!

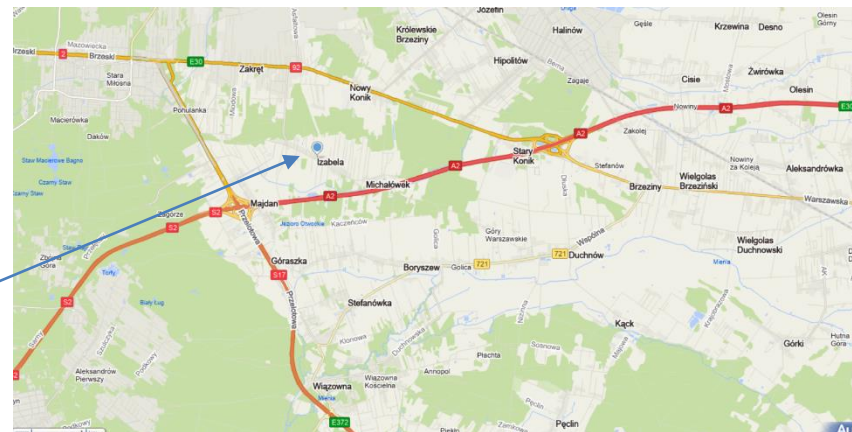
Manhattan Distance matrix analysis based on RABV field strains revealed significant genetic distance between the population of vaccine strains from both rabies cases and those contained in oral Lysvulpen vaccines, and the RABV population circulating in the field.

The virus populations are clearly separated by large distances.

Rabies outbreak - Mazowieckie



- jenot
- kot
- lis
- nietoperz
- pies
- sarna (sarniak)
- zbiak
- ★ RABV Mazowsze 2021-1szy przypadek



2) osoba pobierająca próbki: ~~.....~~

3) miejsce, data i godzina pobrania próbek : woj. mazowieckie, powiat otwocki, gm. Wiązowna, m. Izabela ul. Postępu 60 , 03.01.2021r. godz. 10:00

4) miejsce znalezienia zwłok, ~~odstrzału lub odłowu zwierząt~~ : woj. mazowieckie, powiat otwocki, gm. Wiązowna, m. Izabela ul. Postępu 60, 52.207432, 21.290071

5) obszar objęty zakazami lub ograniczeniami określonymi zgodnie z przepisami unijnymi lub w przepisach krajowych: tak

■ nie..... ~~odstrzału lub odłowu zwierząt~~ : ~~odstrzelonych/umierających bez~~ ~~objawów choroby~~ ~~odstrzelonych/umierających z objawami choroby~~ ~~żywych~~ ~~zabitych w wyniku zdarzenia losowego~~

2. Opis zwierząt od których pochodzą próbki:⁷⁾ załącznik do wzoru⁶⁾ tak ■ nie

1) gatunek/ płęć: lis pospolity *Vulpes vulpes*

2) wiek/waga ok. 1 rok/ 4 kg

3) identyfikacja zwierząt:⁸⁾

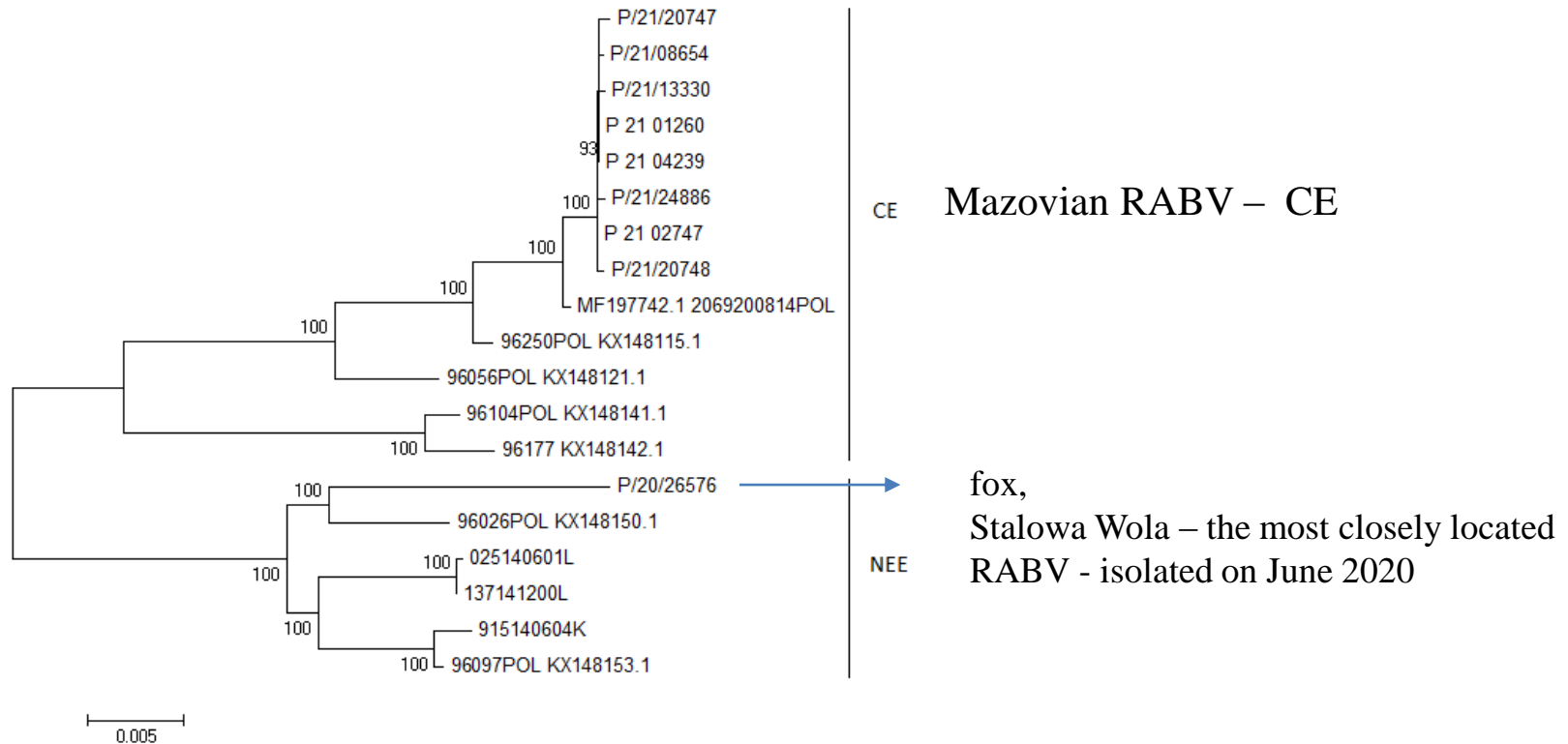
4) próbki pobrano od zwierząt:⁶⁾ padłych/ śniętych; ~~odstrzelonych/umierających bez~~ ~~objawów choroby~~ ~~odstrzelonych/umierających z objawami choroby~~ ~~żywych~~ ~~zabitych w wyniku zdarzenia losowego~~

5) objawy kliniczne/ zmiany anatomopatologiczne

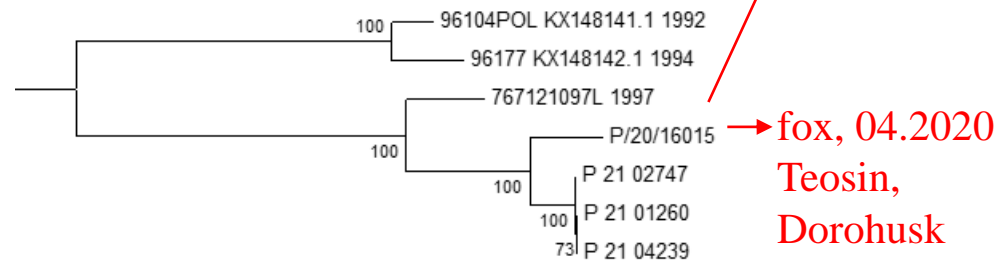
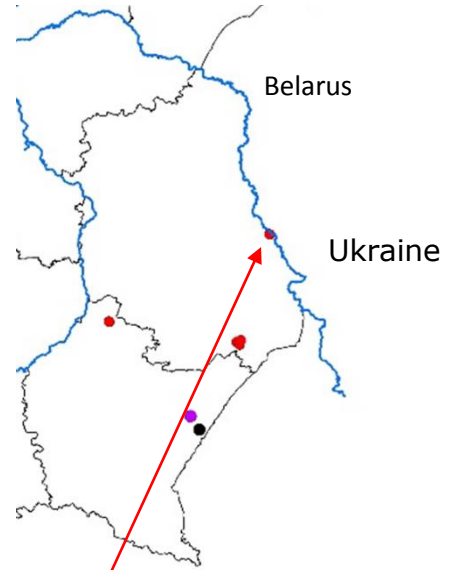
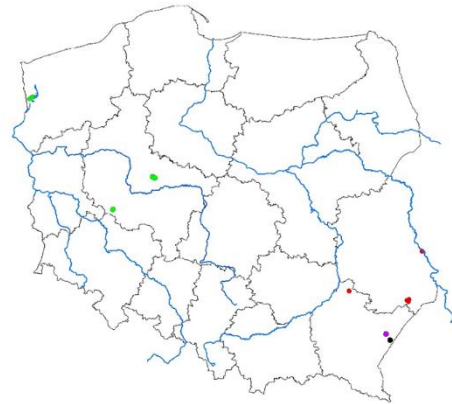
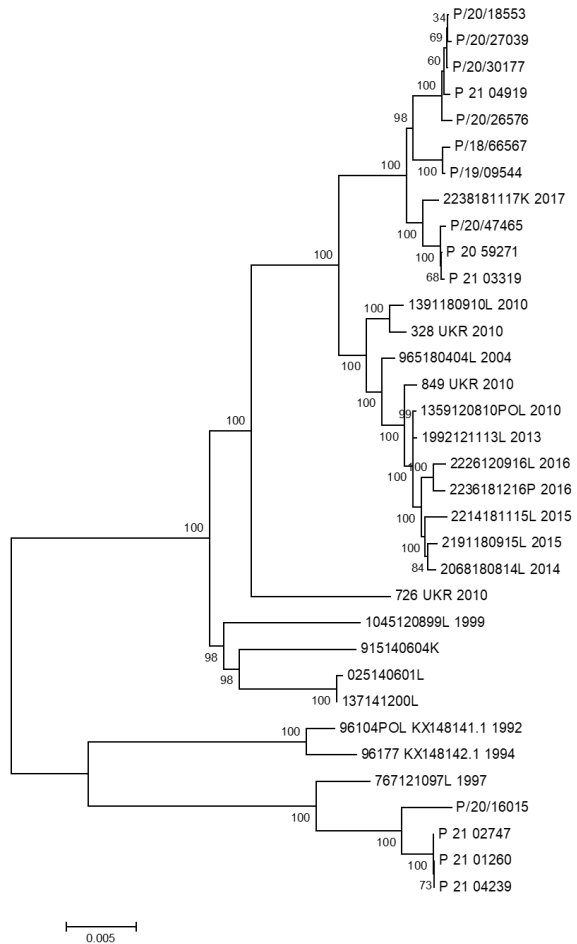
6) data i godzina znalezienia zwłok, ~~odstrzału lub odłowu zwierząt~~ : 03.01.2021, godz. 09:00



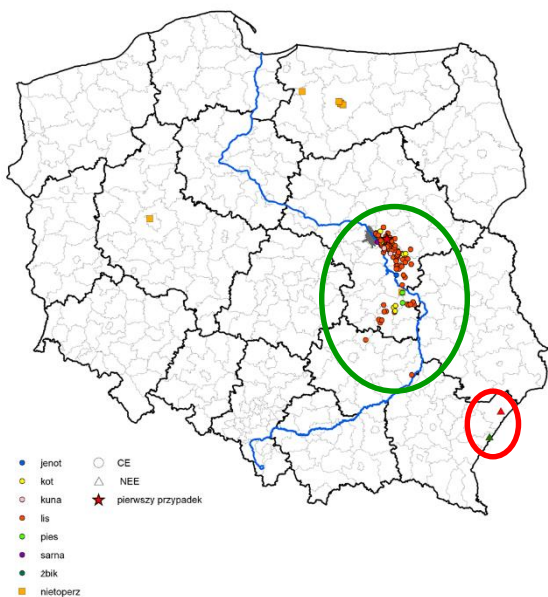
Rabies outbreak – Mazowieckie - 2021



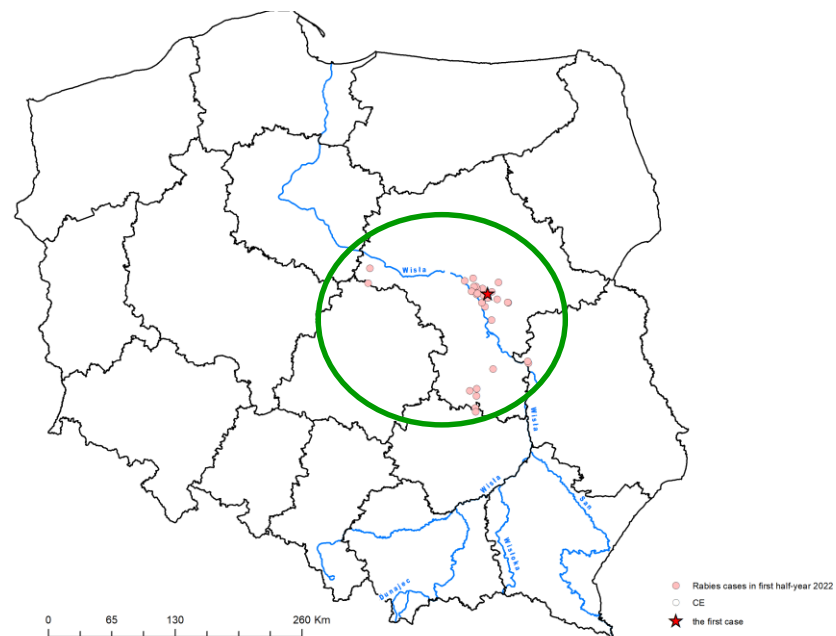
Rabies outbreak – Mazowieckie - 2021

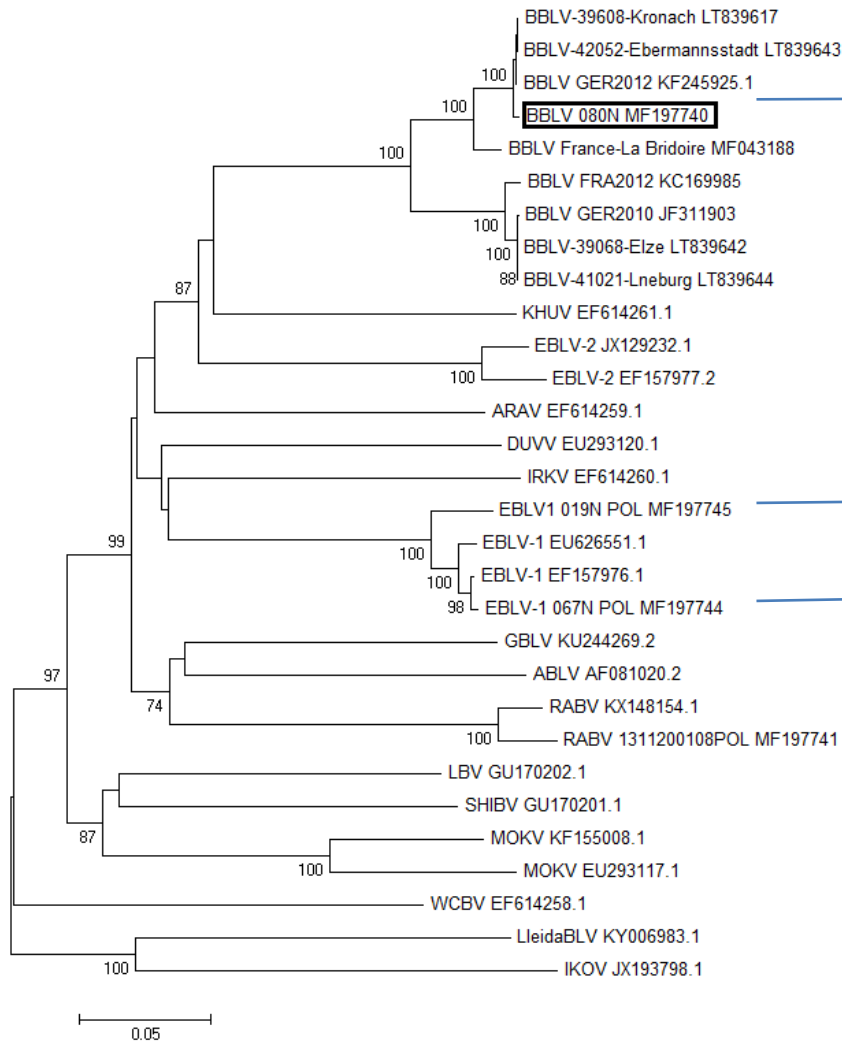


2021



2022





BBLV
2016



M. nattereri

EBLV-1 b

EBLV-1 a



E. serotinus

Thank you for attention!!

