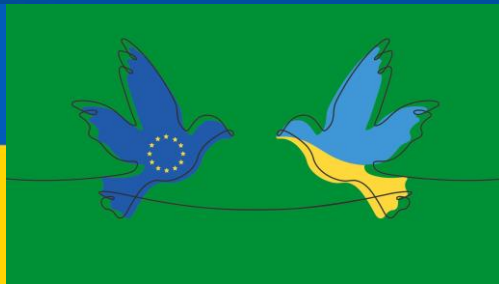


# Germany: Imported rabies case in a dog, 2021

#StandWithUkraine



Thomas Müller  
Conrad Freuling

# Illegal importation/movement of pet animals Europe



## 36 rabies cases (1990 - 2021)

Rapid communications

IDENTIFICATION OF A RABID DOG IN FRANCE ILLEGALLY INTRODUCED FROM MOROCCO

Zusatzlogos

# Imported rabies case Germany



Dog breed:	Kangal mix
Country of origin:	Turkey
Vaccination status:	unvaccinated
Certificates:	none/chipped
Import via:	land route (Bulgaria)
Date of importation:	02 Sept 2021
Onset of clinical signs:	04 Sept 2021
Presentation to a vet:	07 Sept 2021
Date of death:	09 Sept 2021
Rabies diagnosis:	10 Sept 2021 (DFA-; RT-qPCR-positive) LAVES Hanover
Confirmation by NRL/FLI:	13 Sept 2021 (DFA-; RT-qPCR-positive), partial & whole genome sequencing, pathohistological investigations



Tracing of animal and human contacts  
PEP immediately initiated

# Imported rabies case Germany



## ADIS Outbreak [DE-RABIES-RABV-2021-00001](#) submitted



ADIS reference	Primary or secondary	Country-Administrative zone	Species	Number of susceptible	Number of cases	Number of dead	Number of killed	Number of slaughtered
<a href="#">DE-RABIES-RABV-2021-00001</a>	Primary	DEU-Bremen	Dogs	-	-	1	-	-



### Details of the outbreak

**Date of suspicion:** 08/09/2021

**Date of confirmation:** 15/09/2021

**Preliminary cleaning & disinfection date (if applicable):** -

**Date of submission:** 20/09/2021

**National reference:** 21-107-00008

**Specific information:** Rabies case confirmed in an 8 weeks old dog puppy brought illegally from Turkey via Bulgaria to Germany on 2 September 2021.

The puppy was kept separately in a completely enclosed garden of a house without having any contact to other animals.

The puppy died on 9 September 2021 in a veterinary clinic without having any contact to other animals.

The people who had contact to the dog received an emergency vaccination. The epidemiological investigation confirmed that the rabies-free status of Germany is not endangered.

**Control measures applied:** Disease notification, Disinfection

**Coordinates:** 53.05 / 8.91

# Imported rabies case Germany



## Reported to the Standing Committee on Plants, Animals, Food and Feed, September 22, 2022



Protokoll über die  
Sitzung des Ständigen Ausschusses für Pflanzen, Tiere, Lebensmittel und Futtermittel,  
Sektionen Tiergesundheit und Tierschutz sowie Kontrollen und Einfuhrbedingungen  
am 22. September 2021 in Brüssel (als Videokonferenz)

SEITE 15 VON 15

### Verschiedenes

#### **Deutschland berichtet zu einem Fall von importierter Tollwut**

DEU berichtet zu einem importierten Fall von Tollwut bei einem Welpen, der über BGR aus TUR gebracht wurde. Das Tier verstarb perakut am 09.09.2021 in einer Tierklinik bei Bremen. Sowohl Landeslabor als auch FLI testeten das Tier positiv. Der Hundewelpen wurde in einem eingezäunten Garten an einer Leine gehalten. Es gab keinen Kontakt zu anderen Tieren. Der Kontakt zu Menschen war auf die Familie und die Mitarbeiter der Tierklinik begrenzt. Sie wurden sicherheitshalber gegen Tollwut geimpft. Der Fall wurde sowohl über ADIS als auch WAHIS gemeldet. Der Status der Tollwutfreiheit Deutschlands ist nicht gefährdet.

# Partial and whole genome sequencing

## German imported case

Descriptions

Graphic Summary

Alignments

Taxonomy

Sequences producing significant alignments

Download

New

Select columns

Show

100



select all 100 sequences selected

[GenBank](#)

[Graphics](#)

[Distance tree of results](#)

New [MSA Viewer](#)

	Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
<input checked="" type="checkbox"/>	<a href="#">Rabies lyssavirus isolate RV1144, complete genome</a>	<a href="#">Rabies lyssavirus</a>	21592	21592	100%	0.0	99.37%	11923	<a href="#">KY860605.1</a>
<input checked="" type="checkbox"/>	<a href="#">Rabies lyssavirus isolate RV1145, complete genome</a>	<a href="#">Rabies lyssavirus</a>	21569	21569	100%	0.0	99.34%	11923	<a href="#">KY860604.1</a>
<input checked="" type="checkbox"/>	<a href="#">Rabies lyssavirus isolate 96324ISR nucleoprotein, phosphoprotein, matrix protein, glycoprotein, and polymeras...</a>	<a href="#">Rabies lyssavirus</a>	20358	20358	99%	0.0	97.81%	11801	<a href="#">KX148184.1</a>
<input checked="" type="checkbox"/>	<a href="#">Rabies lyssavirus isolate 93030ISR nucleoprotein, phosphoprotein, matrix protein, glycoprotein, and polymeras...</a>	<a href="#">Rabies lyssavirus</a>	20297	20297	99%	0.0	97.71%	11801	<a href="#">KX148180.1</a>

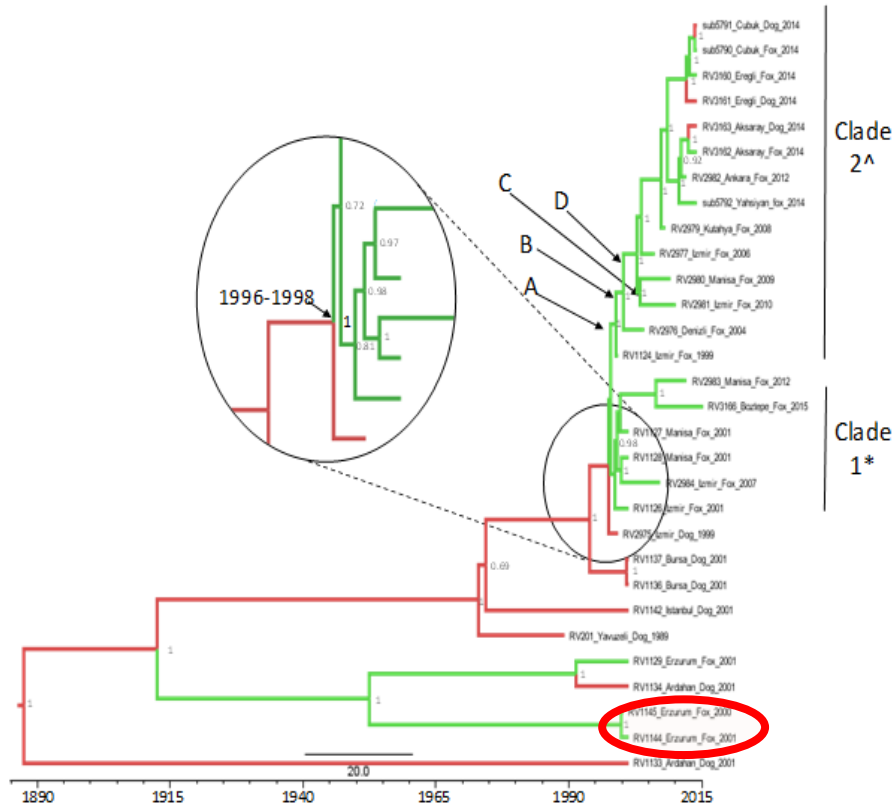
FRIEDRICH-LOEFFLER-INSTITUT

FLI

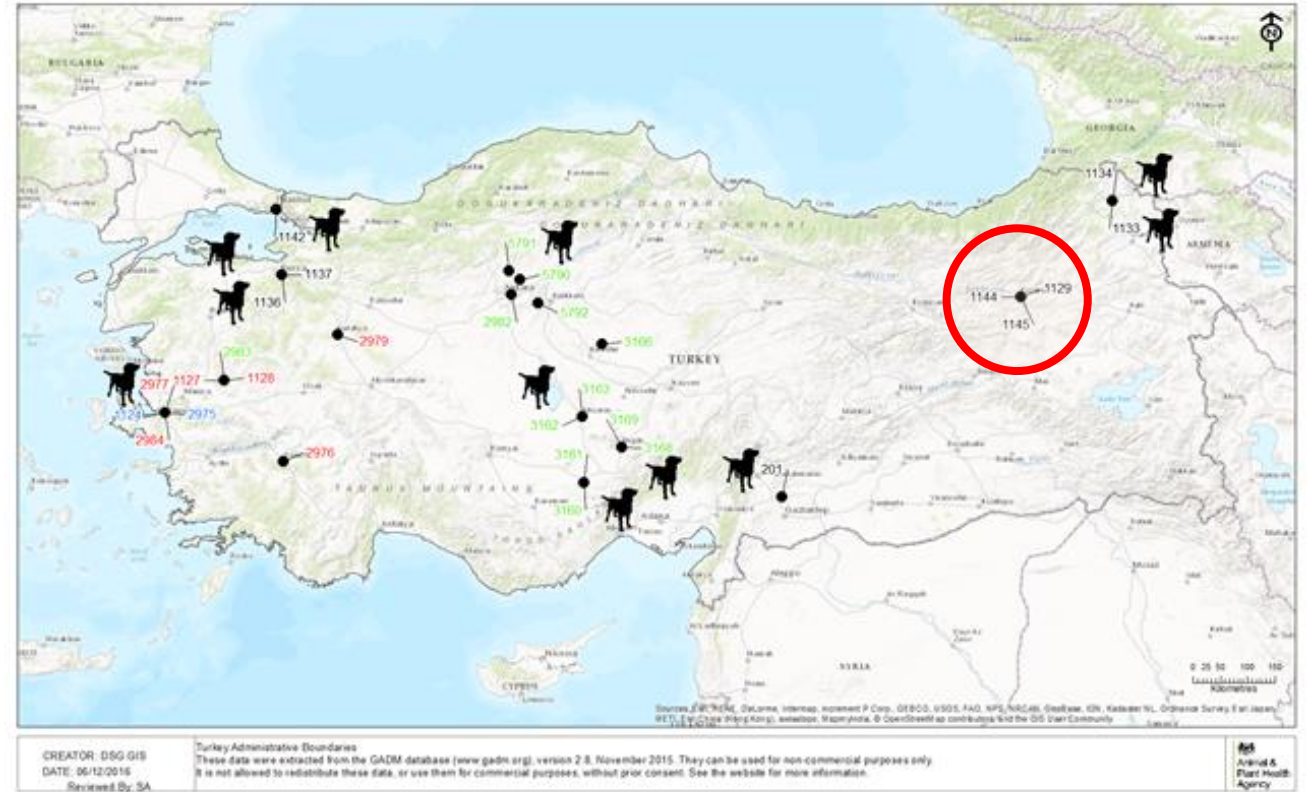
Bundesforschungsinstitut für Tiergesundheit  
Federal Research Institute for Animal Health



# Partial and whole genome sequencing German imported case

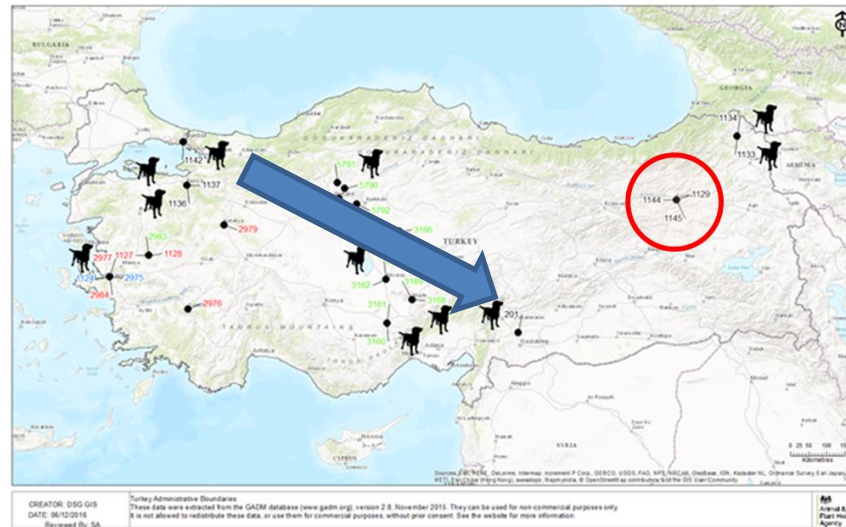


Marston et al., 2018



# Investigation by the Turkish Ministry German imported case

- According to the Turkish database, the microchip was applied in a veterinary clinic in Şehitkamil, Gaziantep district.
- due to a cyber attack on the Turkish system, no further information could be derived

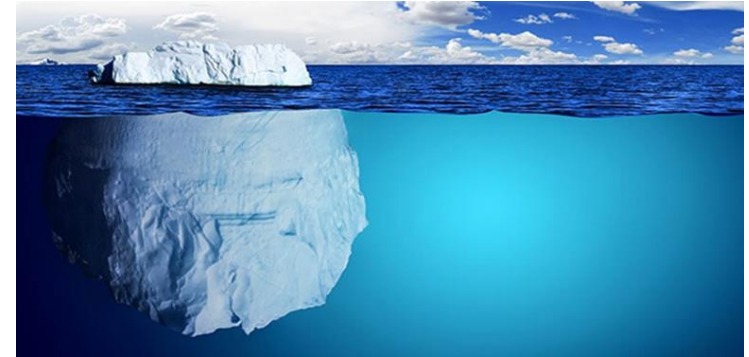




# Conclusions

## German imported case

- Border inspections (particularly for ground travel) are the most important barrier for the introduction of potentially rabid animals (dog had crossed EU borders two times!)
- Bremen authority found 27 animals from other countries (EU MS and third countries) in 2021 without rabies vaccination
- For properly vaccinated dogs, requirements could be less strict, i.e. reduction of waiting period post serology (see Smith et al., 2020 vs. EFSA report 2022)



Thanks for your attention!

