



## VETBIONET

Veterinary Bio-contained facility Network for excellence in animal infectiology research and experimentation

### Deliverable D5.9

*Three webinars available online*

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Classified, as referred to in Commission Decision 2001/844/EC	

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## Summary

### Objectives

Deliverable 5.9 "Three webinars available online" is dedicated to organizing and making available online webinars targeting scientists but also a wider audience than the workshops and summer schools.

The three webinars that were held and made available to the public cover three independent topics, but all related to VetBioNet's core activities. They took place during the public sessions of the 3rd VetBioNet Annual Meeting in December 2020, during which different consortium members presented an outline of their work related to each of these topics. More information is available below.

Videos of the three webinars are already online on the VetBioNet project website in the "Video" subfolder of the menu, and on the official VetBioNet YouTube channel.

In order to disseminate VetBioNet's activities more widely and to give the network more visibility in this last phase of the project, two or three more webinars accessible to a wider scientific audience are being planned. The idea is to involve speakers from different backgrounds, VetBioNet partners or not, on topics related to the 3Rs and animal imaging in particular. The planned format is one hour and one hour and a half, with 2 or 3 speakers per webinar. The announcement of these webinars will be widely disseminated in advance, and a specific registration page will be created on the website to directly connect registered participants with the Zoom meeting platform.

These webinars will likely be delivered in the fall of 2021, depending on the availability of identified speakers. Videos will be posted online.

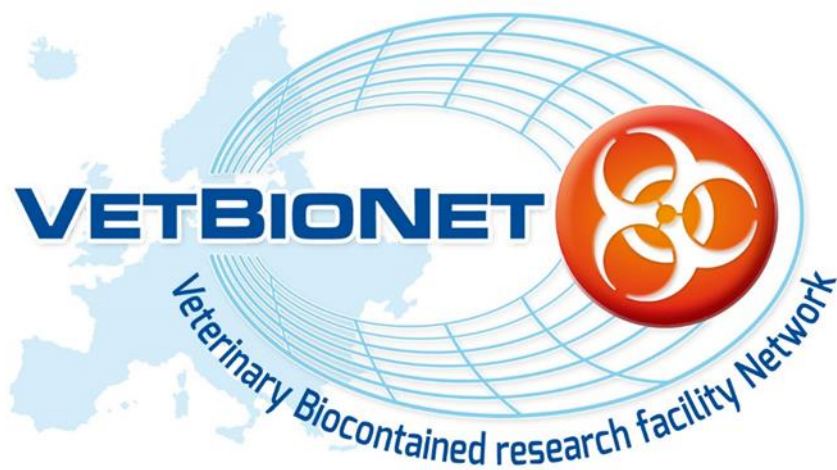
### Rationale

Deliverable 5.9 describes the program and the flow of the three webinars that were made available online. Links and details are provided as Appendix.

### Teams involved

EAAP, INRAE, all partners.

## Three webinars available online



## 1.1 Description

The three webinars took place during the public sessions of the 3rd VetBioNet Annual Meeting on the afternoon of December 17, 2020 (2:00-5:50 PM).

Each webinar was organized independently by one or two consortium members, based on the program outline and the 3 themes identified by the Annual Meeting organizing committee and validated by the VetBioNet executive committee.

The format of each webinar was left to the organizer, who also selected the VetBioNet work that best illustrated each theme. The authors of these works were thus able to present an overview of their work related to each of these themes considered to be of current interest to the consortium.

The public session was first introduced by Sascha Trapp, the VetBioNet project coordinator. After welcoming all external speakers and colleagues participating in the session, he briefly introduced the format of the public session in webinar format, and the 3 proposed topics:

- VetBioNet Transnational Access (TNA) and the panel of services offered, with a focus on the upcoming TNA call
- COVID-19 research activities carried out by VetBioNet partners
- VetBioNet's joint research activities with private partners

(see paragraph 1.2 for more details)

### 1.2 Webinar no.1: VetBioNet Transnational Access (TNA)

The first webinar started with a presentation by Norbert Stockhofe (Wageningen University & Research - The Netherlands), organizer of this first webinar and leader of the Work Package devoted to VetBioNet TNA (WP1), who gave an overview of access to the TNA. He also reminded the participants of the permanent call for free access to the high-level animal facilities of VetBioNet partners (visible on the dedicated page of the project website) and how to access them. He then presented an overview of the TNA activities carried out since the beginning of VetBioNet:

- 29 approved projects

- applicants from Europe and elsewhere: Spain, Italy, France, Netherlands, Sweden, Switzerland, Denmark, Germany, USA, Lebanon, Cuba, Japan and Thailand
- projects on different species such as ferrets, ruminants, fish, pigs, camelids, sheep, red fox, poultry, goats but also in cell cultures

The webinar then continued with the presentation of two TNA users and their respective providers. These presentations illustrate the type of work done in VetBioNet's partner infrastructures but also the constructive exchanges between users and providers that contribute to the success of the project:

- Maria Forlenza from Wageningen University & Research (The Netherlands) presented the study entitled "Mucosal vaccination of carp against SVCV" - TNA service provider INRA-IERP represented by Bertrand Collet
- Ana Maria Moreno de IZLER (Italy) presented the study entitled "Experimental infection of ewes and pigs with a novel pestivirus closely related to classical swine fever virus"- TNA service provider IRTA-CReSA represented by Lilianna Ganges

### **1.3 Webinar no.2 - VetBioNet partners research activities related to Covid-19**

The second webinar was chaired by Sascha Trapp and it was organized in the form of 4 successive presentations of original and top-level work recently performed by VetBioNet partners on SARS-CoV 2. The objective was to illustrate the diversity of approaches implemented by VetBioNet partners as well as their significant contribution to this topical issue.

- The first speaker, Saskia Weber from Friedrich-Loeffler-Institut (Germany), presented her work titled "SARS-CoV2: One virus, many animals...one model?"
- The second presentation entitled "FAQs about SARS-CoV2, and some answers from experiments at Erasmus MC" was presented by Sander Herfst from Erasmus Medical Center (The Netherlands)
- The third speaker was Nora Gerhards from Wageningen BioVeterinary Research (The Netherlands): "SARS-CoV2 animal models at WBVR"

- The final presentation entitled “SARS-CoV2/COVID-19 work at IRTA-CReSA” was performed by Julia Vergara-Alert, CReSA (Spain)

#### **1.4 Webinar no.3: Joint research activities involving VetBioNet private partners**

The third webinar, organized by Lucas Noldus (Noldus Information Technology, (The Netherlands) and Tobias May InSCREENeX (Germany), was dedicated to the Joint research activities involving VetBioNet private partners. It was structured as a 2-part webinar:

- Part 1: “Telemetric approaches in farmed animal species”
- Part 2: “Development of novel farm animal cell lines”

Part 1, introduced by Lucas Noldus, briefly described the WP9.2 objectives, the access to tools for VetBioNet partners and the action plan from June 2019 to the present day. This topic was then illustrated with 8 short presentations:

- David Selby (TPI) and Simone van Bruggen (Noldus IT): “ultra-band tracking, 3D accelerometer sensing and automatic behaviour recognition in cattle”
- Samantha Watson (APHA): “video tracking in chickens with LED-based identification”
- Maëva Manet (Utrecht University/Noldus IT): “video tracking in chickens with marker-based identification”
- Anna Toffan (IZS Venezia) and Fabrizio Grieco (Noldus IT): “group-based video tracking in sea bass”
- Dimitri Rigauudeau (INRAE Jouy-en-Josas) and Fabrizio Grieco (Noldus IT): “individual video tracking in rainbow trout”
- Ben Loke (Noldus IT; The Netherlands): “behavioural and physiological monitoring in biocontainment facilities: lessons learned”
- Alassane Keita (ANSES Ploufragan; France) “telemetric monitoring of body temperature in chickens”

- Lesley Vedder (Noldus IT; The Netherlands) “telemetric monitoring of body temperature and activity: progress report on technology survey”

Part 2 was presented by Tobias May (InSCREENeX, Germany) in a unique presentation giving an overview of cell lines developed in the context of VetBioNet joint research activities (JRAs) and their applications.

## 1.5 Agenda

Here below the agenda of the 3 webinars, held on December 17th on the occasion of the open day of the 3rd VetBioNet Annual Meeting.

Public presentations - 14:00 – 18:00 (70 minutes per topic)	
14:00 – 15:10	Transnational access (TNA) (Norbert Stockhofe, WBVR) <ul style="list-style-type: none"> <li>- TNA project results (1) (Maria Forlenza, WUR)</li> <li>- TNA project results (2) (Lilianne Ganges, CReSA)</li> </ul>
15:10 – 15:20	10 minutes coffee break
15:20 – 16:30	Partners research activities related to Covid-19 (Wageningen BioVeterinary Research, Friedrich-Loeffler-Institut, CReSA, Erasmus Medical Centre)
16:30 – 16:40	10 minutes coffee break
16:40 – 17:50	Joint research activities involving private partners <ul style="list-style-type: none"> <li>- Telemetric approaches in farmed animal species (Lucas Noldus, Noldus Information Technology)</li> <li>- Development of novel farm animal cell lines (Tobias May, InSCREENeX)</li> </ul>

### Webinar 1: VetBioNet Transnational access (TNA)

- TNA overview: Norbert Stockhofe, WBVR (The Netherlands)
- TNA project results: Successes & challenges of intra-muscular and oral DNA vaccination of carp against Spring Viremia of Carp Virus (SVCV) (Maria Forlenza, Wageningen University & Research) (The Netherlands)
- TNA project results: Experimental infection of ewes and pigs with a novel Pestivirus related to classical swine fever virus (SFV) (Lilianne Ganges, CReSA)

### Webinar 2: VetBioNet partner research activities related to Covid-19

- SARS-CoV2: One virus, many animals...one model?  
(Speaker: Saskia Weber, Friedrich-Loeffler-Institute) (Germany)



- FAQs about SARS-CoV2, and some answers from experiments at Erasmus MC (The Netherlands)

(Speaker: Sander Herfst, Erasmus Medical Centre) (The Netherlands)

- SARS-CoV2 animal models at WBVR (The Netherlands)

(Speaker: Nora Gerhards, Wageningen BioVeterinary Research) (The Netherlands)

- SARS-CoV2/COVID-19 work at IRTA-CReSA

(Speaker: Julia Vergara-Alert, CReSA) (Spain)

### Webinar 3: Joint research activities involving private partners

- Telemetric approaches in farmed animal species

(Speaker: Lucas Noldus, Noldus Information Technology) (The Netherlands)

- Development of novel farm animal cell lines

(Speaker: Tobias May, InSCREENeX) (Germany)

### Annex 1 Participants' list

N°	Name	Organisation	Country code
1	Adi Steinrigl	AGES	AT
2	Agnes Wiedemann	INRAE	FR
3	Alassane KEITA	ANSES	FR
4	Alba Fresco	INGENASA	IT
5	Albert Bensaid	IRTA	ES
6	Alejandro Nunez	APHA	UK
7	Anna Toffan	IZSVE	IT
8	Anne Silvestre	INRAE	FR
9	Anthony Vermue	INRAE Transfert	FR
10	Artur Summerfield	EDI-IVI	CH
11	Astrid de Greeff	WUR	NL
12	Aude Remot	INRAE	FR
13	Audrey Richard	ERINHA	EU
14	Ayham Alnabusi	VAL	UK
15	Ben Loke	Noldus	NL
16	Bernd Kaspers	DGfI	DE
17	Bertrand Collet	INRAE	FR
18	Daniel Dory	ANSES	FR
19	Daniel Marc	INRAE	FR
20	Daniel Rodriguez Martin	INIA	ES
21	David Griffiths	MRI	UK

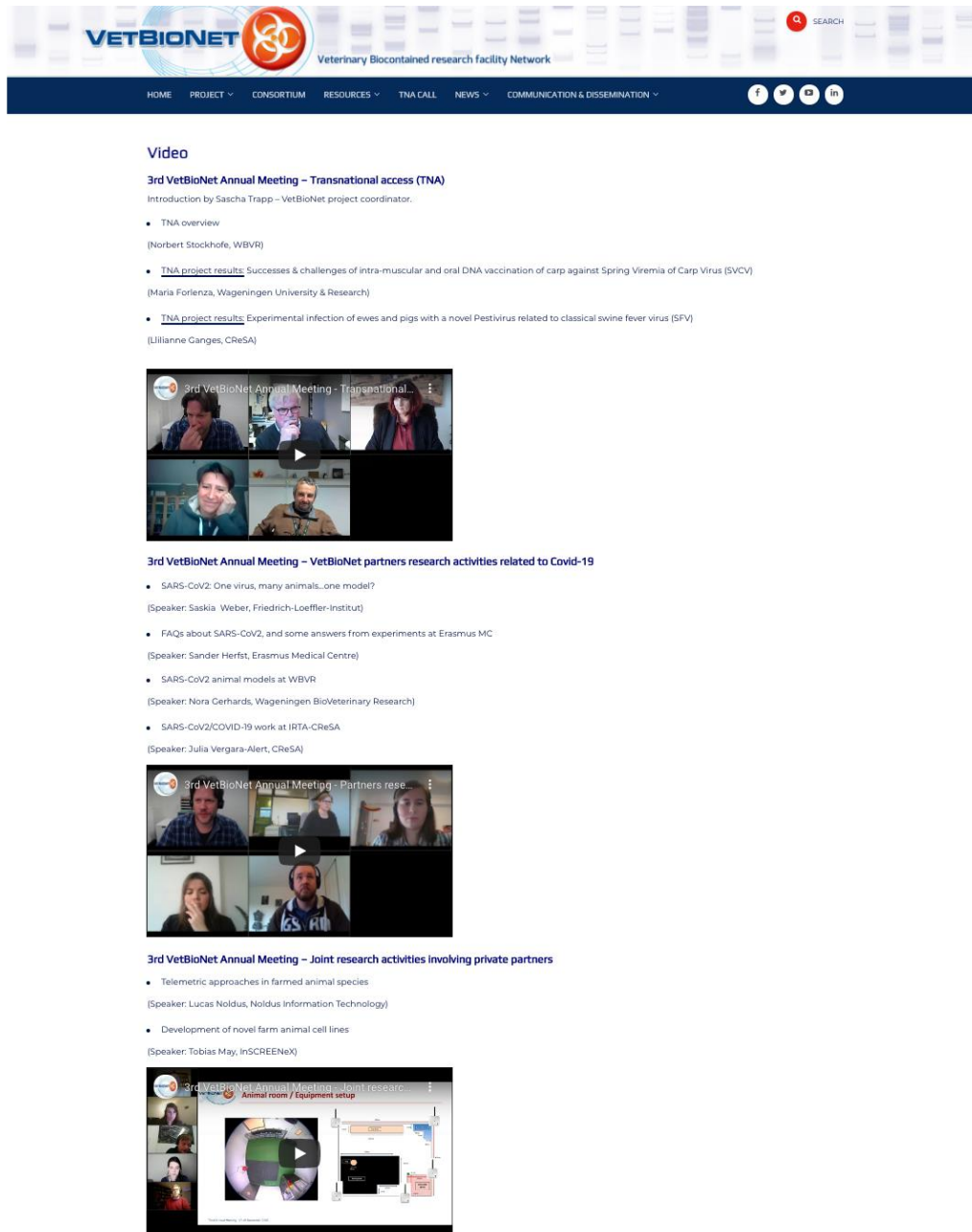
22	David Selby	TPI	UK
23	David Smith	MRI	UK
24	Dimitri Rigaudeau	INRAE	FR
25	Edouard Guitton	INRAE	FR
26	Eduard Roos	TPI	UK
27	Elisa Torres Lorite	INIA	ES
28	Elsbeth van Dam	Noldus	NL
29	Esther Blanco	INIA	ES
30	Fabian Lean	APHA	UK
31	Fabienne Archer	INRAE	FR
32	Fabrice Laurent	INRAE	FR
33	Fabrizio Grieco	Noldus	NL
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35	Frederic Lantier	INRAE	FR
36	Ghislaine Le Gall-Reculé	ANSES	FR
37	Giovanni Migliaccio	EATRIS	IT
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39	Hugh Simmons	APHA	UK
40	Ignacio Caballero	INRAE	FR
41	Jan Langermans	BPRC	NL
42	Jean-Christophe Audonnet	Boehringer	FR
43	Johanna Lindahl	ILRI	KE
44	Jordi Rodon	IRTA	IT
45	Juan José Badiola	UniZar	ES
46	Júlia Vergara-Alert	IRTA	IT
47	Kate Millar	UNOTT	UK
48	Keith Ballingall	MRI	UK
49	Kenneth Vernick	Pasteur	FR
50	Laëtitia Trapp-Fragnet	INRAE	FR
51	Larry Barrett	DHS	US
52	Laurent Mostin	SCIENSANO	BE
53	Lesley Vedder	Noldus	NL
54	Lilianne Ganges	IRTA	ES
55	Lonneke Vervelde	UEDIN	UK
56	Lucas Noldus	Noldus	NL
57	Mabel Thoulouze	INRAE	FR
58	Maëva Manet	UU	NL
59	Marco Alves	EDI-IVI	CH
60	Maria Forlenza	WBVR	NL
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65	Mickaël Riou	INRAE	FR
66	Miguel Ángel Ramirez	INIA	ES
67	Monika Slezak	EVI	DE
68	Morgane Delavergne	INRAE	FR
69	Nathalie Winter	INRAE	FR
70	Noelia Moreno	INIA	ES
71	Noemi Sevilla	INIA	ES
72	Nora Gerhards	WBVR	NL
73	Norbert Stockhofe	WBVR	NL
74	Olivier BOURRY	ANSES	FR
75	Olivier Roy	CEBIPHAR	FR
76	Paloma Rueda	INGENASA	IT
77	Paul Wichgers Schreur	WBVR	NL
78	Pierre Boudinot	INRAE	FR
79	Rachel Baker	APHA	UK
80	Riccardo Carelli	EAAP	IT
81	Rineke de Jong	WBVR	NL
82	Ron Fouchier	ERASMUS MC	NL
83	Ryan Waters	TPI	UK
84	Samantha Watson	APHA	UK
85	Sander Herfst	ERASMUS MC	NL
86	Sandrine Lesellier	ANSES	FR
87	Sascha Trapp	INRAE	FR
88	Saskia Weber	FLI	DE
89	Simone van Bruggen	Noldus	NL
90	Stéphane Abrioux	INRAE	FR
91	Stephen Anderson	MRI	UK
92	Timm Konold	APHA	UK
93	Timon Daniels	Noldus	NL
94	Tina Dalgaard	AU	DK
95	Tobias May	ISX	DE
96	Tuhina Gupta	UGA	US
97	Uwe Fischer	FLI	DE
98	Uwe Mueller-Doblies	EpiBio	UK
99	Verónica Martín García	INIA	ES
100	Vincent Troillard	INRAE Transfert	FR
101	Wendy Shell	AGES	AT

## Annex 2 Website dedicated page

Screenshot taken from the «Video page» subfolder under «Communication & dissemination»



**Video**

**3rd VetBioNet Annual Meeting – Transnational access (TNA)**  
Introduction by Sascha Trapp – VetBioNet project coordinator.

- TNA overview  
(Norbert Stockhofe, WBVR)
- TNA project results: Successes & challenges of intra-muscular and oral DNA vaccination of carp against Spring Viremia of Carp Virus (SVCV)  
(Maria Forlenza, Wageningen University & Research)
- TNA project results: Experimental infection of ewes and pigs with a novel Pestivirus related to classical swine fever virus (SPV)  
(Lilianne Ganges, CReSA)

**3rd VetBioNet Annual Meeting – VetBioNet partners research activities related to Covid-19**

- SARS-CoV2: One virus, many animals...one model?  
(Speaker: Saskia Weber, Friedrich-Loeffler-Institut)
- FAQs about SARS-CoV2, and some answers from experiments at Erasmus MC  
(Speaker: Sander Herfst, Erasmus Medical Centre)
- SARS-CoV2 animal models at WBVR  
(Speaker: Nora Gerhards, Wageningen BioVeterinary Research)
- SARS-CoV2/COVID-19 work at IRTA-CReSA  
(Speaker: Julia Vergara-Aliet, CReSA)

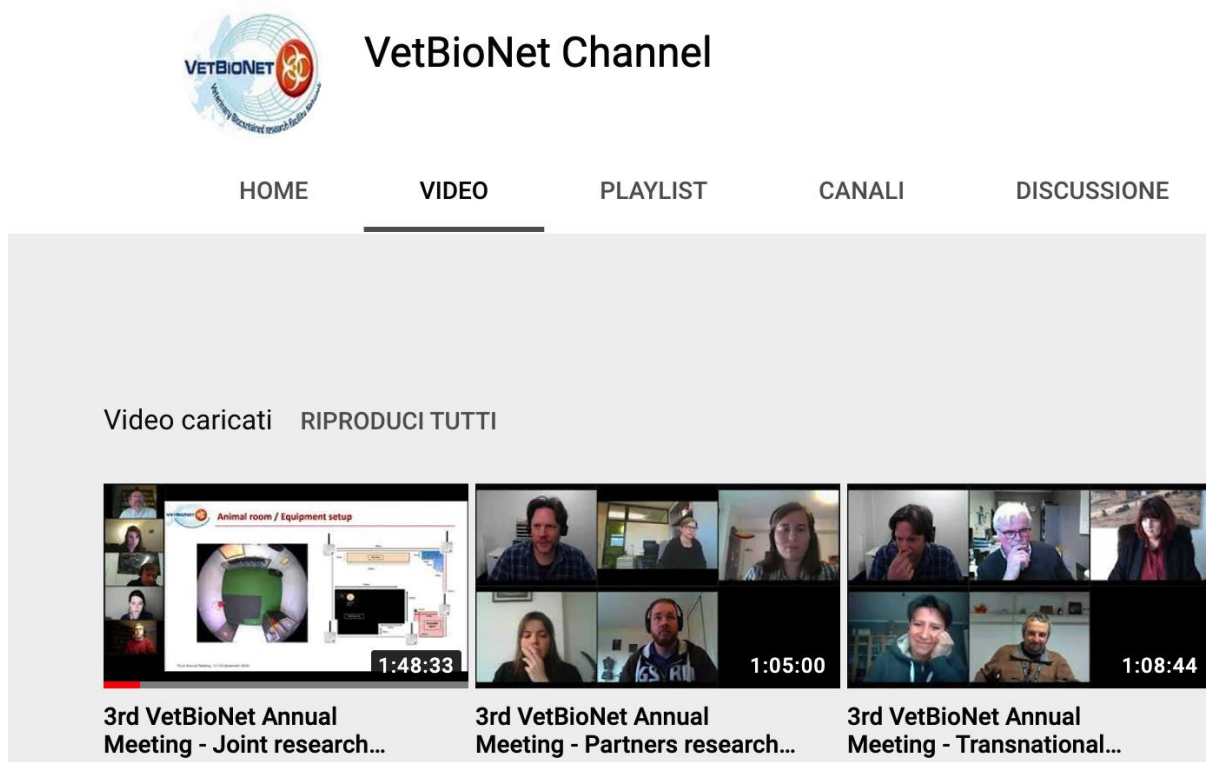
**3rd VetBioNet Annual Meeting – Joint research activities involving private partners**

- Telemetric approaches in farmed animal species  
(Speaker: Lucas Noldus, Noldus Information Technology)
- Development of novel farm animal cell lines  
(Speaker: Tobias May, InSCREENeX)

The page is visible [here](#).

### Annex 3 Official YouTube VetBioNet channel overview

Screenshot taken from the YouTube VetBioNet Channel



The page is visible [here](#).