D-1.a Kick-off meeting

JRP5 - MAD-VIR - ET1 - 1st Call

Responsible Partner: SSI

GENERAL INFORMATION

European Joint Programme full title	Promoting One Health in Europe through joint actions on foodborne zoonoses, antimicrobial resistance and emerging microbiological hazards
European Joint Programme acronym	One Health EJP
Funding	This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 773830.
Grant Agreement	Grant agreement n° 773830
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Duration	60 Months

DOCUMENT MANAGEMENT

JIP/JRP Deliverable	
Join Integrative/Research Project	JRP5 - MAD-VIR - ET1 - 1st Call
JIP/JRP Leader	Anders FOMSGAARD (SSI)
Other contributors	Maiken W. Rosenstierne (SSI)
Due month of the deliverable	**M6**
Actual submission month	**M6**
Type *R: Document, report* *DEC: Websites, patent filings, videos, etc.* *OTHER*	R
Dissemination level *PU: Public* *CO: confidential, only for members of the consortium (including the Commission Services)*	

Kick-off meeting

Summary

The MAD-Vir project started with a Kick-off meeting held at SSI in Copenhagen (the 2nd of February). At this meeting every participant presented themselves and their institutes. In the initial project proposal the microarray technology was only to be implemented at INIA and APHA, however PIWET was very interested in learning the technology and because they already had all the microarray equipment and were able to finance the technology transfer without any additional costs to the project, it was decided to expand the technology transfer to PIWET also.

It was also decided that each partner in the project should select different samples from their biobanks to be tested at SSI with the PanVirus microarray (1st round). A common sample pre-treatment/inactivation protocol was presented by SSI and it was decided that all participant should follow this protocol. So far, SSI has received 14 samples from PIWET, 5 samples from INIA, 10 samples from IZSAM, 16 samples from OIK, 8 samples from ANSES and 3 samples from VRI to be tested for virus with the PanVirus microarray.

Meeting minutes

MEETING MINUTES

MAD-VIR KICK-OFF MEETING

Date:	Friday, February 2, 2018
Time:	11:00 am
Location:	Statens Serum Institut, Artillerivej 5, Copenhagen, Denmark
Meeting room:	Lecture Hall, Building 42
Chair:	Anders Fomsgaard
Present:	Laurent Bigarré from ANSES Anders Fomsgaard from SSI Miguel Angel Jiménez-Clavero from INIA Pikka Jokelainen from SSI Maria Magdalena Lassaunière from SSI Antonio Lavazza from IZSLER Sylvie Lecollinet from ANSES Sara Moutailler from ANSES Jowita Samanta Niczyporuk from PIWET Morten Rasmussen from SSI Maiken Worsøe Rosenstierne from SSI Daniel Růžek from VRI Czech

Artur Rzeżutka from PIWET
Falko Steinbach from APHA
Mária Takács from NPHI/OIK
Anna Nagy from NPHI/OIK
Jeanette Linnea Tingstedt from SSI

Meeting Purpose: MAD-Vir project kick-off

11:00 Meeting opened

11:05-12:20 Statens Serum Institut project participants including Kåre Mølbak (EJP Programme Manager Committee member), Anders Fomsgaard (MAD-Vir Project Coordinator), and Maiken Rosenstierne (MAD-Vir Project Coordinator Assistant) gave presentations

SPEAKER	PRESENTED ON
Kåre Mølbek	Statens Serum Institut, its functions and organization.
Anders Fomsgaard AFO@SSI.DK	One Health EJP – the organization of their work packages, governance, procedure for MAD-Vir, criteria for reports, budget (remember we only get 44% from EU) and associated rules (we can move budget between posts and year when all MADVIR agree and after asking EJP), financial reporting is your Instituts representative in EJP –not you), time-sheets (start now!), meetings and website (MAD-Vir sub-site to come from EU). Remember the magic sentence of funding at the bottom of your future powerpoint slides
Maiken W Rosenstierne MWR@SSI.DK	The MAD-Vir project – the micro-array (design, principle, advantages, case study, set-up of the assay at the different collaborating laboratories and sending of samples, (perhaps in Magnapure blue buffer 1:1), project aims and approach, funding, and considerations for sample selection.

12:20-12:45 Lunch

12:45-15:15 Key scientists from participating institutes gave presentations

INSTITUTE & SPEAKER	PRESENTED ON
ANSES:	
Sylvie Lecollinet SYLVIE.LECOLLINET@ANSES.FR	The function and activities of the National Reference Laboratory on West Nile, TBE, EEE/WEE/VEE, USUV and African Horse Sickness Diseases and an overview of the research projects conducted and other research networks (Arbonet/ANIHWA) within the department. Zoonoses & Neurovirology, e.g. ARBO virus in equids. Have also multiplex serology on Luminex LC1536 platform.
SARA MOUTAILLER SARA.MOUTAILLER@ANSES.FR	The Vectotiq team's main research areas, surveillance of tick-borne pathogens – bacteria, parasites, and viruses – using microfluidics PCR with 9216 qPCR, examples of epidemiological

	studies conducted, and samples available for the MAD-Vir project, e.g. ticks and mosquitoes.
LAURENT BIGARRÉ LAURENT.BIGARRE@ANSES.FR	Fish Viral Pathology laboratory's tasks in east France, many fishy fish viruses detected/studied and samples that can be contributed to the MAD-Vir project. How many fish virus is in our MAD-Vir array? Should we include internal DNA/RNA controls?
APHA (University of Surrey):	
Falco Steinbach FALKO.STEINBACH@APHA.GSI.GOV.UK	The School of Veterinary Medicine at the University of Surrey's research focus and strengths. Animal & Plant Health Agency's history, structure, function, activities, scientific programs, collaborations, animal BSL-4 lab and viruses of interest, e.g. HEV as foodborne/zoonotic/emerging Also Falco mentioned life-stock/wild-life samples. NB APHA/Univ Surrey has great experience in Agilent Array platform and will therefore need only little help (SOP etc) to set the MAD-Vir array up! Uses iso17025
INIA:	
Miguel Jiménez-Clavero MAJIMENEZ@INIA.ES	CISA animal health Res. Institute is 40 km from Madrid. The Animal Health Research Centre facilities, activities, research and development, technology transfer/training, strengths and examples of samples available for the MAD-Vir project, e.g. WNV, USIV, RVF, CCHF, AIV (ASF, CSF, FMD, BT, AMS, PRRV) and other biological alerts) ARBO in wildlife). Can provide controlled samples, field samples (mostly birds, organs, blood) and will set-up the MAD-VIR array (first 6 mths) with help from Maiken (SSI)
IZSLER:	
ANTONIO LAVAZZA ANTONIO.LAVAZZA@IZSLER.IT	North Lombardy/Emilia Romagna area in Italy. The institute's structure, function and activities, national and international reference laboratories, biobank of veterinary resources (e.g. 900 EM "virus positive" samples (Bees, frog, insects, cell-culture, organs etc -80C from 20 years available for MAD-Vir project), www.biowarehouse.net, diagnostic activities and expertise. Interest: Rabbit hemoragic diseases and wild-life surveillance. Also presented on behalf of Giovani Savini on IZSAMs main fields of activity (Teramo area Italy) and samples available for the MAD-Vir project. E.g. bluetongue and flavivirus, virus discovery of new serotypes, has coulter-Nanostring technique for bluetongue 800 probes in 12 tubes for e.g. insects (midges). Has samples collections e.g. tissue, insects with WNV, USUV and other flavivirus. Has methods like suckling mice, culture, PCR/Seq, serology
NCE Hungary:	
Maria Takács TAKMAR@GMAIL.COM	Function and activities of the Directorate for Clinical and Public Health Microbiology (National ref. inst for viral zoonosis). An overview of the virus diagnostic tests, virus isolation, molecular methods and serological methods performed at the National

	Reference Laboratory for Viral Zoonoses and samples available for the MAD-Vir project. Has human patient samples and virus isolates (e.g. TME, WNV)
PIWET:	
JOWITA NICZYPORUK JOWITA.NICZYPORUK@PIWET.PULAWY.PL	The Department of Poultry Diseases Research activities and samples available for the MAD-Vir project. And wild birds
Artur Rzeżutka ARZEZ@PIWET.PULAWY.PL	The National Veterinary Research Institute's structure, focus and activities. Department of Food and Environmental Virology's research activities and samples available for the MAD-Vir project. (e.g. serum samples of wild birds and boars, other samples collected from farm animals)
VRI Czech:	
DANIEL RŮŽEK RUZEKD@PARU.CAS.CZ	The Veterinary Research Institute Laboratory of Virology's research topics (emerging viral diseases, ARBO pathology and immunology, vaccine and antivirals), related recent publications, collection of arboviruses, tick colonies of 14 spp., field mosquito colonies, and samples available for the MAD-Vir project including human samples e.g. TBE/unknown encephalitis, tBE, ZIKV WNV, Rabies, herpesvirus

15:15-15:30 Tea break

15:30-16:00 Discussion

TOPIC	ACTION
SAMPLE SELECTION	
Each participating institute will make a numbered prioritized sample list for testing - samples with known etiology and unknown suspicious etiology	Key scientists at each institute
Once the list has been compiled and emailed to SSI and all of us, a telephone conference will be arranged by SSI to finalize the first representable sample selection, and samples will be sent for testing (we will discuss preparation procedures for that). These samples will be tested at SSI (by Maiken)	
At the same time and during these first 6 months, Maiken will arrange with APHA and INIA on visiting (2 weeks?) for setting up the array. This will include comparison of the different relevant NA extraction methods and a ring testing of a known panel. Also PIWET in Poland (Artur) may want to set up the Array since they have got an Agilent Microarray reader! PIWET will see if budget for visit and reagents can be found, alternatively we may agree on shifting money from Web expenses?	
COMMUNICATION	
Telephone conference to be held every month	All participants
TRANSPORT OF SAMPLES	

According to safety regulations, samples may be couriered but not cultured BSL4 organisms. Send Category A material extracted or inactivated and Category B samples on dry ice.

Blue buffer inactivates pathogens, preserves DNA/RNA, can be used for all sample types, and can be purchased individually an send room temperature

A clearly defined protocol for use of the blue buffer will be provided (Maiken) — Maiken W Rosenstierne

The possibility of using one SSI transport company and SSI account number will be investigated. — Anders Fomsgaard/ Maiken W Rosenstierne

NB All institution groups must have (or seek) ethical approvement of the testing of their samples in MAD-VIR (we have just been told by EJP) and must send a copy of their approvals to Maiken for our MADVIR file for EJP etc!

HARMONIZATION OF ASSAY ACROSS LABORATORIES

A panel with a variety of sample types and targets will be prepared and taken to labs where the microarray method will be implemented — Maiken W Rosenstierne

Ideal to first use extracted material to harmonize array handling and then sample preparation and extraction methods. Once methodology is comparable between laboratories, samples will be sent for testing

Suggested to have a method of assessing sample quality. It is currently not evaluated, however, a positive sample is tested throughout the workflow. Housekeeping genes not ideal approach since the intention is to remove host genomic DNA

VALIDATION OF MICROARRAY

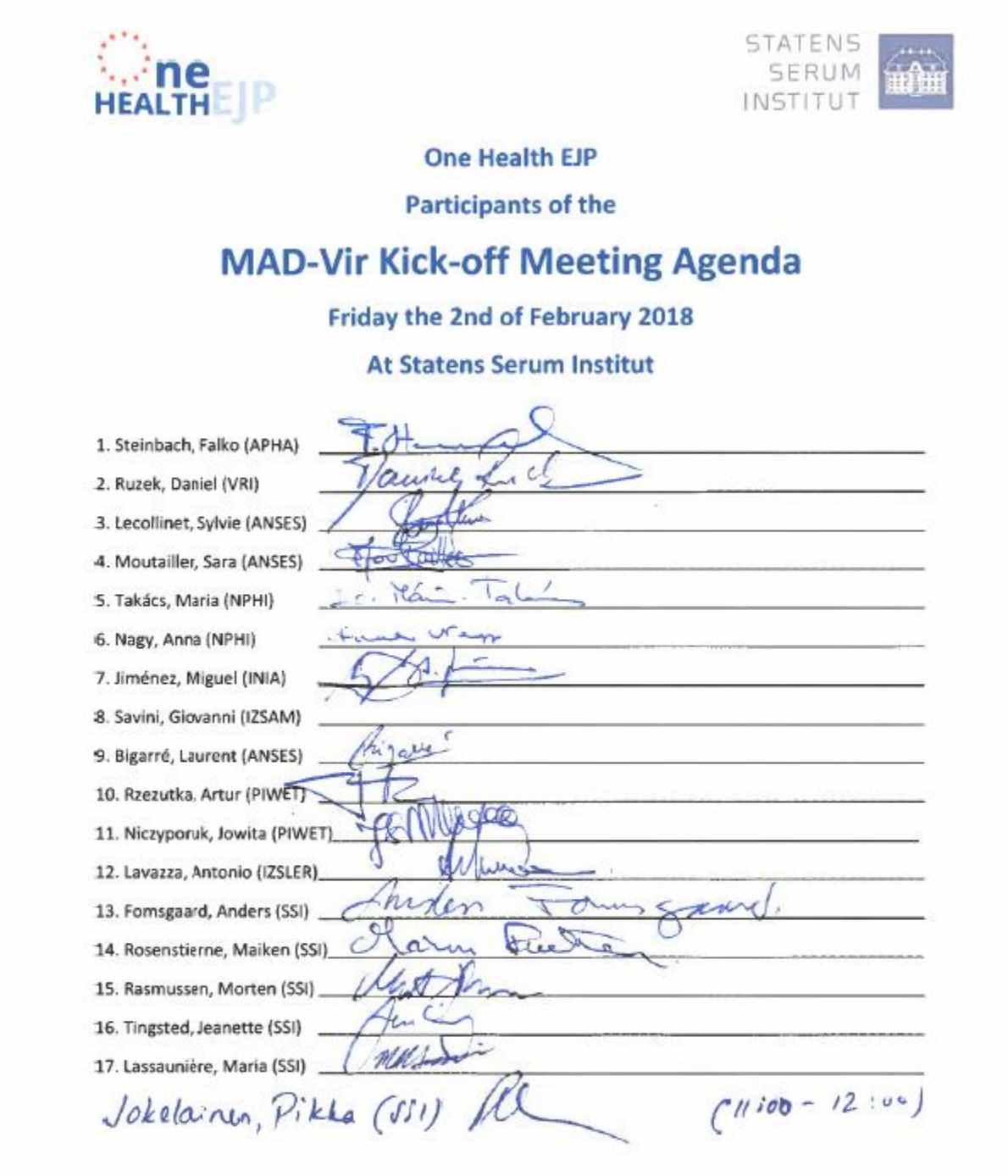
Need to identify confirmatory PCR assays

Not all probes can be validated due to limited sample availability, but can be continuously evaluated for specificity

Microarray can be amended to add additional probes

16:00 Meeting closed

Signed participant list



One Health EJP

Participants of the

MAD-Vir Kick-off Meeting Agenda

Friday the 2nd of February 2018

At Statens Serum Institut

1. Steinbach, Falko (APHA)
2. Ruzek, Daniel (VRI)
3. Lecollinet, Sylvie (ANSES)
4. Moutailler, Sara (ANSES)
5. Takács, Maria (NPHI)
6. Nagy, Anna (NPHI)
7. Jiménez, Miguel (INIA)
8. Savini, Giovanni (IZSAM)
9. Bigarré, Laurent (ANSES)
10. Rzezutka, Artur (PIWET)
11. Niczyporuk, Jowita (PIWET)
12. Lavazza, Antonio (IZSLER)
13. Fomsgaard, Anders (SSI)
14. Rosenstierne, Maiken (SSI)
15. Rasmussen, Morten (SSI)
16. Tingsted, Jeanette (SSI)
17. Lassaunière, Maria (SSI)

Jokelainen, Pikka (SSI) (11:00 - 12:00)

Group photo