



Minutes MedVetKlebs Year 3 Meeting

(Nov 17th, 2020, Institut Pasteur, Paris – via Teams)

Participants:

Institut Pasteur, Paris, France:

Sylvain Brisse, Carla Rodrigues, Sebastien Bridel, Virginie Passet, Mélanie Hennart, Marta Lourenço and Fanny Mazzamurro

Phillipe Glaser

Lulla Opatowski and Audrey Duval

ANSES, Lyon, France: Marisa Haenni and Raquel Garcia Fierro

NUIG, Galway, Ireland: Dearbhaille Morris and Niamh Cahill

SSI, Copenhagen, Denmark: Eva Møller Nielsen and Malgorzata (Gosia) Ligowska-Marzeta

IZSAM, Teramo, Italy: Francesco Pomilio and Alessandra Cornacchia

AGES, Graz and Vienna, Austria: Franz Allerberger and Kathrin Hauser

NCOH, Utrecht, The Netherlands: Janetta Top

Excused: Rob Willems (represented by J. Top); Sara Pires (DTU, Denmark); Elodie Barbier and Pascal Pivetaeu (INRAE, Dijon, France)

Please share all your presentations from the meeting in the google drive folder

Programme:

9:00 – 9:20 Sylvain: a quick overview of MedVetKlebs achievements and 'left to do'

SB reminded the overall and specific objectives of MedVetKlebs, mentioned the publications from MedVetKlebs, and discussed projects still in progress, including the revision of the DMP and the communication plan.

9:20 – 9:40 CR presented genomic data from multicentric and soil studies.

Multicentric study: remaining: to compare high risk clones isolates with clinical isolates; analyze GWAS hits (no hits obtained with TreeWAS)

Soil study: we have almost 400 isolates analyzed but we need the final list of isolates to be included in this specific study from Elodie to start the phylogenetic and GWAS analyses.

9:40 – 10:00 SBridel presented Klebsiella MALDI-TypeR and made a live demonstration

<https://maldityper.pasteur.fr/sbridel/klebsiellatyper/> - website for partners to test the tool

<https://www.biorxiv.org/content/10.1101/2020.10.13.337162v1> - link to bioRxiv publication

10:00 – 10:20 AD presented her modelling work and a tool to propose thresholds based on outbreak duration and mutation rate.

10:20 -10:40 PG presented three projects, including one recently published (<https://pubmed.ncbi.nlm.nih.gov/33109078/>)

11:00-11:15 DM presented the status of MVK in Ireland: sequencing in progress from sea water samples as well as freshwater, dog and horses samples.

11:15 – 11:30 Gosia presented results of duplex and triplex qPCR assays. Duplex qPCR assays are not so promising and could be abandoned if the issues of specificity cannot be solved. Will start the onions sampling this month.

NUIG will like to test the triplex PCR.

11:30 – 11:45 - AC presented an update of sampling and analytical work at ISZAM. 1500 samples from broad survey + 350 in 2020. Seawater samples: 60 from Abruzzi shores. 22 are positive + 6 Klebs spp. Mussels/clams too.

Note: Different volumes from NUIG used in the sampling of seawater study. Take this into account when analyzing the results.

AMR+Seq will start soon (end of December/beginning of 2021)

Also participating in the onions study.

11:45 – 12:00 - JT presented an update of the NCOH contribution, focusing on human and dog from household's carriage.

Metagenomic data still need to be analyzed.

12:00 – 12:15 - RGF presented ANSES data on clinical Kp in animals (ESBL/carbapenemases).

Article almost written, soon will be submitted for publication.

12:15 – 12:30 - Kathrin presented an onion study update in AGES (dataset complete). Presented also a longitudinal study in healthy volunteer, published in Frontiers in Microbiology (<https://www.frontiersin.org/articles/10.3389/fmicb.2020.581081/abstract>)

12:30 – 13:00 – General discussion & closure

We plan an after-project follow-up meeting: April-May 2021