



COllaborative Management Platform for detection and Analyses  
of (Re-) emerging and foodborne outbreaks in Europe

## General Meeting

28 February – 2 March 2018, DTU, Lyngby, Denmark

Building 101, Glass Hall

### Day 1, Wednesday, 28 February 2018

Time	Activity	Speakers	Location
08:00	Bus transportation from Copenhagen hotels		WakeUp and Ibsens Hotel
09:00 – 09:20	Coffee and registration		Glass Hall
09:20 – 10:00	Welcome to General Meeting 2018 Report from Young COMPARE	Frank Aarestrup (DTU) Marion Koopmans (EMC) Nanna Munck/Casper Poulsen (DTU)	Glass Hall
10:00 – 11:00	Focus on genotype to phenotype prediction (Part 1)	-Ron Fouchier (EMC) Zoonotic/pandemic influenza, predicting virulence and transmissibility of flu viruses (gain-of-function) (10 min) -Derek Smith (UCAM) Phenotype prediction for human influenza (10 min) -Ulrich Nubel (DSMZ) Genome-based detection of nosocomial pathogen transmission (10 min) - Emilie Westeel (FMER) An NGS approach to characterize the markers of antibiotic resistance in <i>Salmonella enterica</i> serovar Typhi isolated from Bangladesh (10 min)	Glass Hall
11:00 – 11:30	Coffee break		



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 643476.



**Day 1, Wednesday, 28 February 2018**

Time	Activity	Speakers	Location
11:30 – 13:00	Focus on Diagnostic metagenomics	<ul style="list-style-type: none"> <li>-Ariane Belka (FLI) Experiences with tools for the elimination of human reads from shotgun metagenomics data sets generated from human clinical samples prior to data sharing (10 min)</li> <li>- Sébastien Matamoros (AMC) Experience with preparation of samples with relatively low bacterial low loads (10 min)</li> <li>-Claudia Wylezich (FLI) Is everything clean? Sources of contamination in a metagenomic lab workflow (10 min)</li> <li>-Florian Hansmann (TIHO) Success of NGS for the detection of viral pathogens in veterinary samples (10 min)</li> <li>-Barbara Muhlemann (UCAM) Ancient DNA- Hepatitis B virus from the iron and bronze age (10 min)</li> </ul>	Glass Hall
13:00 – 14:00	Lunch		
14:00 – 14:45	WP9 – Data and information platform	<ul style="list-style-type: none"> <li>-Guy Cochrane (EMBL) Update and coming soon (15 min) How is the system being used?</li> <li>-Sébastien Matamoros (AMC) AMR (5 min)</li> <li>-Eva Møller Nielsen (SSI) WP4 hub dcc_vivaldi (5 min)</li> <li>-Matt Cotten (EMC) Viral hub (5 min)</li> <li>-Peter Løngreen (DTU) Data security (10 min)</li> </ul>	Glass Hall





**Day 1, Wednesday, 28 February 2018**

Time	Activity	Speakers	Location
14:45 – 16:00	Pilot Project: NGS based public health	<ul style="list-style-type: none"> <li>-Sander Van Boheemen (EMC) and Dirk Höper (FLI) Clinical samples versus food samples (10 min)</li> <li>-Sofia Strubbia (IFREMER) Sample preparation: how to eliminate bacteria/ how to select bacteria (5 min)</li> <li>-Rolf Kaas (DTU) and David Nieuwenhuijse (EMC) Pipeline analysis: full genome bacteria versus how to find small RNA genome (10 min)</li> <li>-Daniel Remondini (UNIBO) and Nanna Munck (DTU) Two approaches for source attribution (10 min)</li> <li>-Michel-Yves Mistou (ANSES) FBO investigations: is there a faster method than growing a tree? (5 min)</li> <li>-Minh Nguyen (UA) Longitudinal study of ESBL E. coli evolution at the patient level from a single hospital (5 min)</li> </ul>	Glass Hall
16:00 – 16:30	Coffee break		
16:30 – 18:00	Poster Session		Glass Hall
18:00	Bus transportation to dinner		
18:30	COMPARE Dinner		Nørrebro Bryghus





**Day 2, Thursday, 1 March 2018**

Time	Activity	Speakers	Location
08:00	Bus transportation from Copenhagen hotels		WakeUp and Ibsens Hotel
09:00 – 09:45	Cost/Benefit and Perspective from industry stakeholder	-Frank Alleweldt (CIVIC) Overview (10 min) -Job van Exel (EUR) Preliminary findings from questionnaire on the value of safety (10 min) -John Donaghy (EAP member, Nestle) Perspectives from industry (10 min)	Glass Hall
09:45 – 10:15	Coffee break		
10:15 – 11:15	Pilot Project: ECDC and COMPARE	-Eva Møller Nielsen (SSI) Introduction to the ECDC-Compare pilot (10 min) -Karin Johansson (ECDC) ECDC's perspective (5 min) -Guy Cochrane (EMBL) Process and final configuration of the pilot (10 min) -Clara Amid (EMBL) and Eva Litrup (SSI) Demonstration of pilot data hub (10 min)	Glass Hall
11:15 – 12:30	Focus on wildlife reservoir	-Rachel Taylor (APHA) Wildlife reservoirs: dispersal and subsequent risk of introduction of new pathogens (10 min) -Thijs Kuiken (EMC) Taking the sample and collection protocols, nuances/challenges specific for wildlife (10 min) -Anne Pohlmann (FLI) HPAI sampling in wild birds, diagnostics, and phylogeny (20 min) -Emilio Mordini (RT) Wildlife reservoirs - real and perceived risks of wildlife-associated diseases for human and domestic animal health might erode public support for wildlife conservation (7 min)	Glass Hall





## Day 2, Thursday, 1 March 2018

Time	Activity	Speakers	Location
12:30 – 13:15	Lunch		
13:15 – 15:30	Breakout WP Mtgs	WP3/6 (S04), Ethics Advisory Board (S16), WP2 (starting at 14:30, S12)	Glass Hall, Meeting Center S04, S12, S16
15:30– 16:00	Coffee break		
16:00 – 18:00	Workflow training	<ul style="list-style-type: none"> <li>-Clara Amid (EMBL) Introduction and workflow overviews</li> <li>-Clara Amid (EMBL) Data reporting, the Webin and API option</li> <li>-Lukasz Dynowski (DTU) Data reporting, the DTU uploader option</li> <li>- Clara Amid (EMBL) Assignment to data hubs, search, download, from sequence to analysis</li> <li>-Nima Pakseresht (EMBL) Workflow engine (for software engineers)</li> <li>-Matt Cotten (EMC) SLIM analysis</li> <li>-David Nieuwenhuijse (EMC) ViromeBrowser</li> <li>-Ole Lund/Martin Thomsen (DTU) CGE analysis</li> <li>-David Visontai (WIGNER) Kooplex</li> <li>-Judit Szarvas (DTU) Evergreen trees and bacteria</li> </ul>	Glass Hall
	Executive Board and EAP Meeting		Meeting Center 101, S12
18:00	Bus Transportation to Copenhagen hotels		
	Dinner on your own		





**Day 3, Friday, 2 March 2018**

Time	Activity	Speakers	Location
08:00	Bus transportation from Copenhagen hotels		WakeUp and Ibsens Hotel
9:00 – 10:00	Focus on genotype to phenotype prediction with machine learning (Part 2)	<ul style="list-style-type: none"> <li>-Sébastien Matamoros (AMC) State of the project (7 min)</li> <li>-Daniel Remondini (UNIBO) Network-based algorithms for ABR characterization (7 min)</li> <li>-Philip Lanken Conradsen Clausen (DTU) Mapping raw reads directly against redundant databases (7 min)</li> <li>-Balint Pataki (WIGNER) Point mutation based machine learning AMR prediction (7 min)</li> <li>-David Nieuwenhuijse (EMC) Viral sequence classification using deep learning algorithms (7 min)</li> <li>-Basil Britto Xavier (UA) Predicting colistin resistance phenotypes from genotypic data using a HMM modeling approach (7 min)</li> </ul>	Glass Hall
10:00 – 10:30	Coffee break		





COllaborative Management Platform for detection and Analyses  
of (Re-) emerging and foodborne outbreaks in Europe

### Day 3, Friday, 2 March 2018

Time	Activity	Speakers	Location
10:30 – 11:45	Focus on analytical challenges and solutions	-Ole Lund (DTU) Automated databases (10 min) -Sünje Johanna Pamp (DTU) How to deal with contaminations in public reference genomes & biological specimens (10 min) -Annelies Kroneman (RIVM) EMWEB tool testing (10 min) -Annika Brinkmann (RKI) Wet lab NGS ring trial (10 min)	Glass Hall
11:45 – 13:15	Barriers Workshop: Preferences, Principles and Politics for responsible international data sharing	George Haringhuizen, RIVM	Glass Hall
13:15 – 14:00	Lunch		Glass Hall



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 643476.



**Day 3, Friday, 2 March 2018**

Time	Activity	Speakers	Location
14:00 – 15:00	Focus on the Global sewage metagenome project	<ul style="list-style-type: none"> <li>-Jette Sejer Kjeldgaard (DTU) Concept of the overall project and status of sampling (5 min)</li> <li>-Patrick Munk (DTU) Microbiome and resistome analysis (10 min)</li> <li>-Patrick Murigu Kamau Njage (DTU) ML using WB data, regression of usage data, distorted maps (visualization) (10 min)</li> <li>-David Nieuwenhuijse (EMC) Virus identification using SLIM (10 min)</li> <li>-Istvan Csabai (WIGNER) Mitochondria analysis (5 min)</li> <li>-Timo Röder (DTU) Carbohydrate analysis (5 min)</li> </ul>	Glass Hall
15:00 – 15:30	Wrap-up and closing of the meeting	<ul style="list-style-type: none"> <li>Frank Aarestrup (DTU)</li> <li>Marion Koopmans (EMC)</li> </ul>	Glass Hall
15:30 – 16:30	Executive Board meeting		Meeting Center, S12

