

PROGRAMME

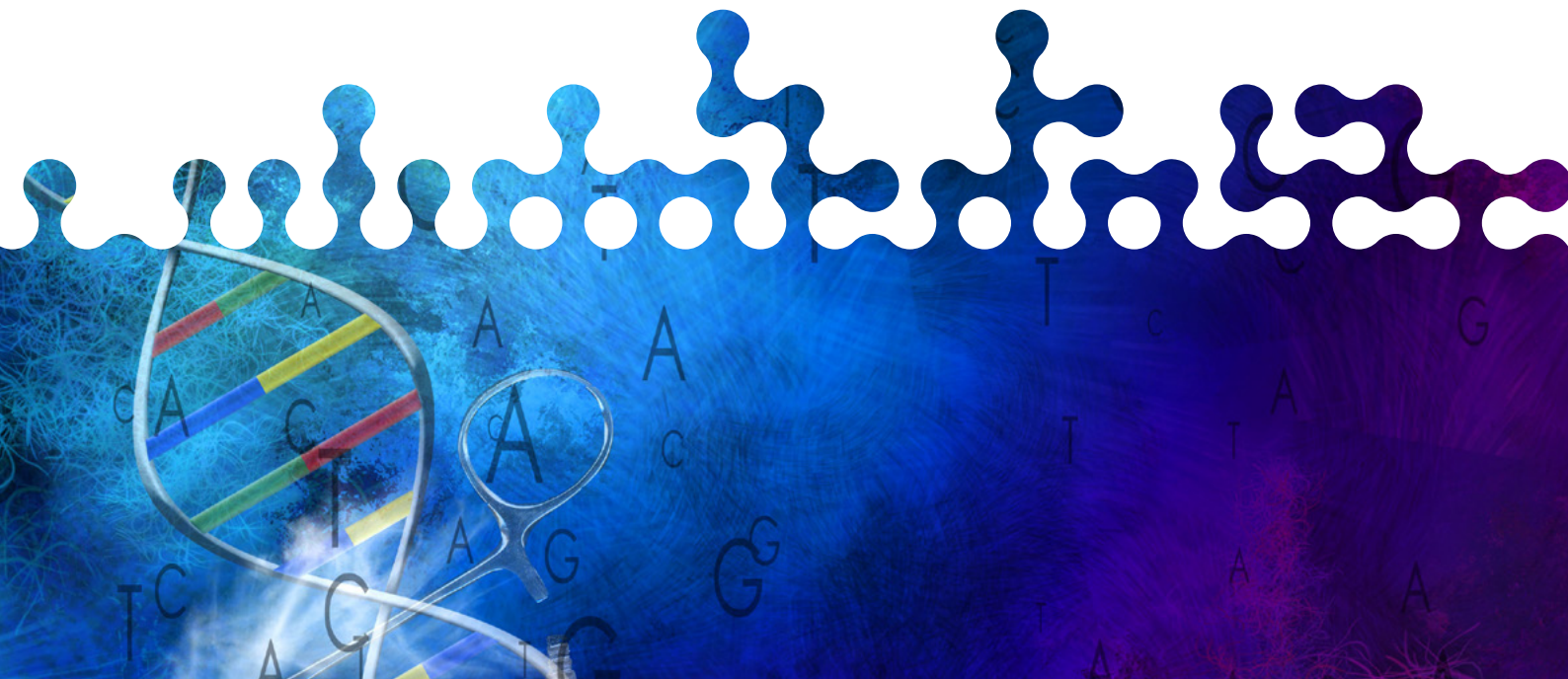
Foodborne pathogens & whole genome sequencing: impact on public health protection

JOINT CONFERENCE

26-28 March 2019

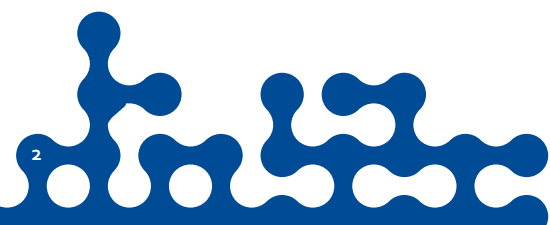
Maison de la RATP - Espace du Centenaire
189 rue de Bercy
75012 Paris - France

[#FoodSafetyWGS2019](#)



TUESDAY 26 MARCH

13:30	Registration
14:00	Opening Welcome and opening remarks from ANSES Roger GENET, ANSES, France Opening remarks from DTU Christine NELLEMAN, National Food Institute, DTU, Denmark Opening remarks from BfR Andreas HENSEL, BfR, Germany Opening remarks from NIFDS Hyo-Sun KWAK, NIFDS, South Korea
14:50	Introductory Keynote speech The Promise of Microbial Genomics: How Microbiology is Standing Up to the Many Challenges of a 21st Century Food Supply Eric BROWN, Center for Food Safety and Applied Nutrition (FDA), USA
15:50	Coffee break
16:20	SESSION 1 WGS for microbiological surveillance and epidemiology CHAIRS: Jørgen SCHLUNDT, Nanyang Technological University (NTU), Singapore and Hyo-Sun KWAK, National Institute of Food and Drug Safety Evaluation (NIFDS), Ministry of Food and Drug Safety, South Korea KEYNOTE SPEAKER: Genomic insights into the epidemiology and surveillance of <i>Vibrio cholerae</i> O1 infections François-Xavier WEILL, Institut Pasteur, France ----- Surveillance of <i>Listeria monocytogenes</i> in foodstuffs and food processing plants by WGS in Germany Stefanie LÜTH, Federal Institute for Risk Assessment, Freie Universität Berlin, Germany Rapid Detection and Identification of Foodborne Pathogens using Single Nucleotide Polymorphism (SNP) Profiling of Their Whole Genome Sequences Ju-Hoon LEE, National Institute of Food and Drug Safety Evaluation (NIFDS), Kyung Hee University, South Korea Past, present and future in the Danish antimicrobial resistance monitoring programme (DANMAP) Valeria BORTOLAIA, National Food Institute, DTU, Denmark
18:05	End of the day



WEDNESDAY 27 MARCH

8:30

Registration

9:00

SESSION 2

Genomics for foodborne pathogens characterization and outbreak investigation

CHAIRS: **Mark ALLARD**, Food and Drug Administration (FDA), Office of Regulatory Science, Division of Microbiology, USA and **Burkhard MALORNY**, Federal Institute for Risk Assessment (BfR), Germany

KEYNOTE SPEAKER: **Impact of whole genome sequencing on the investigation of foodborne outbreaks of Shiga toxin-producing Escherichia coli serogroup O157:H7**
Claire JENKINS, Public Health England, United Kingdom

Building capacity in WGS analysis for detection of deliberate outbreaks

Jette Sejer KJELDGAARD, National Food Institute, DTU, Denmark

Genomic characterization of Clostridium perfringens strains involved in food poisoning outbreaks in France 2013-2017

Abakabir Mahamat ABDELRAHIM, ANSES, France

Foodborne Outbreaks Investigation and Whole Genome Sequences Analysis In Korea MFDS

Jin-Hee HWANG, National Institute of Food and Drug Safety Evaluation (NIFDS), Ministry of Food and Drug Safety, South Korea

10:45

Coffee break

11:15

SESSION 3

Quantitative risk assessment modelisation and source attribution in the genomic era

CHAIRS: **Mirko ROSSI**, European Food Safety Authority (EFSA), Italy and **Gilles SALVAT**, ANSES, France

KEYNOTE SPEAKER: **Towards 'next-generation' source attribution and microbial risk assessment of foodborne pathogens**

Lapo MUGHINI-GRAS, RIVM, the Netherlands

The use of Whole Genome Sequencing in risk assessment: Application to the cold smoked salmon-related listeriosis risk model

Laurent GUILLIER, ANSES, Food Safety Laboratory, Unit Salmonella and Listeria, France

Campylobacter: recent knowledge using genomics and metagenomics

Marianne CHEMALY, ANSES, Laboratory of Ploufragan-Plouzané-Niort, Unit of Hygiene and Quality of Poultry and Pork Products, France

RAKIP: Resources for harmonized annotation and efficient exchange of risk assessment models

Matthias FILTER, Federal Institute for Risk Assessment (BfR), Germany

13:00

Free time for lunch

WEDNESDAY 27 MARCH

14:30

SESSION 4

Pipelines and workflows for WGS data analysis

CHAIRS: **SooHwan SUH**, National Institute of Food and Drug Safety Evaluation (NIFDS), Ministry of Food and Drug Safety, South Korea and **Eric BROWN**, Center for Food Safety and Applied Nutrition, Food and Drug Administration, USA

KEYNOTE SPEAKER: **Integration of genomics in outbreak detection and investigation of food-borne pathogens: state-of-the-art and challenges**

Mirko ROSSI, European Food Safety Authority (EFSA), Italy

PathoLive - Pathogen detection while sequencing

Simon TAUSCH, Federal Institute for Risk Assessment (BfR), Germany

Adaptation to animal sources of *Salmonella enterica* subsp. *enterica* deciphered by Genome Wide Association Study and Gene Ontology Enrichment Analysis at the pangenomic scale

Nicolas RADOMSKI, ANSES, Food Safety Laboratory, Genome Analysis Modelling Risk (GAMeR), France

First steps towards incorporation of whole-genome sequencing data in exposure assessment: Machine Learning and Network-Diffusion approaches

Pimlapas LEEKITCHAROENPHON, Technical University of Denmark, National Food Institute, DTU, Denmark

16:15

Coffee break

16:45

SESSION 5

Antimicrobial resistance

CHAIRS: **Jean-Yves MADEC**, ANSES, France and **Valeria BORTOLAIA**, Technical University of Denmark, National Food Institute, DTU, Denmark

KEYNOTE SPEAKER: **The presence and future in antimicrobial resistance surveillance**

Rene Sjøgren HENDRIKSEN, Technical University of Denmark, National Food Institute, DTU, Denmark

Plasmid-mediated colistin resistance in German *Salmonella enterica* strains isolated from livestock, food and the environment

Maria BOROWIAK, Federal Institute for Risk Assessment (BfR), Germany

One Health Approach on AMR surveillance in Korea

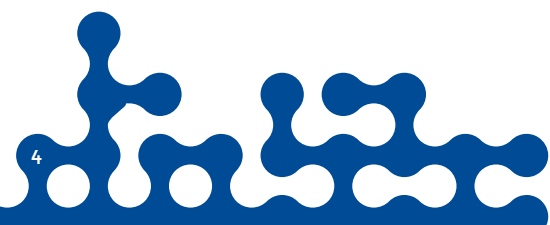
SooHwan SUH, National Institute of Food and Drug Safety Evaluation (NIFDS), Ministry of Food and Drug Safety, South Korea

WGS and antimicrobial resistance

Isabelle KEMPF, ANSES, Ploufragan-Plouzané-Niort Laboratory, France

18:15

Cocktail (until 20:00)



THURSDAY 28 MARCH

8:30

Registration

9:00

SESSION 6

Metagenomics for food safety

CHAIRS: Carlus DENEKE, Federal Institute for Risk Assessment (BfR), Germany and Michel-Yves MISTOU, ANSES, France

KEYNOTE SPEAKER: Challenges and opportunities in foodborne virus genomics
Marion KOOPMANS, Erasmus Medical Center, The Netherlands

Application of metagenomics for the detection of foodborne pathogens

Josephine GRUETZKE, Federal Institute for Risk Assessment (BfR), Germany

Identification of Probiotic Bacteria in Foods through Metagenomic Approach

Woojung LEE, National Institute of Food and Drug Safety Evaluation (NIFDS), Ministry of Food and Drug Safety, South Korea

Global surveillance of antimicrobial resistance through global sewage

Pimlapas LEEKITCHAROENPHON, Technical University of Denmark, National Food Institute, DTU, Denmark

10:45

Coffee break

11:00

ROUND TABLE 1

Handling multi countries foodborne outbreaks

MODERATORS: Charlotte GRASTILLEUR, ANSES, France and Hyo-Sun KWAK, National Institute of Food and Drug Safety Evaluation (NIFDS), Ministry of Food and Drug Safety, South Korea

Stefano MORABITO, Istituto Superiore di Sanità (ISS), Italy

Martial PLANTADY, Health Food Safety Directorate-General (DG SANTE), European Commission, Belgium

Johanna TAKKINEN, European Centre for Disease Prevention and Control (ECDC), Sweden

Henriette de VALK, Santé publique France, France

11:45

ROUND TABLE 2

Data sharing and regulatory issues in the WGS era

MODERATORS: Rene Sjøgren HENDRIKSEN, National Food Institute, DTU, Denmark and Karsten NÖCKLER, Federal Institute for Risk Assessment (BfR), Germany

Marc ALLARD, Food and Drug Administration (FDA), Office of Regulatory Science, Division of Microbiology, USA

George HARINGHUIZEN, National Institute for Public health and the Environment (RIVM), The Netherlands

Mirko ROSSI, European Food Safety Authority (EFSA), Italy

Jørgen SCHLUNDT, Nanyang Technological University (NTU), Singapore

12:30

Closing speech

Roger GENET, ANSES, France

13:00

End of the Joint scientific Conference

