



INTERNATIONAL  
SYMPOSIUM  
SALMONELLA AND  
SALMONELLOSIS



PROGRAMME



*France - Saint-Malo*  
*20 - 22 june 2022*



## VENUE

Palais du Grand Large - 2 quai Duguay Trouin  
35400 Saint-Malo – France

## SYMPOSIUM SECRETARIAT

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# Monday 20th June 2022

▶ 7.30 - 8.45    ■ **Welcome and registration**

▶ 8.45 - 9.15    ■ **Opening ceremony**

by Marianne CHEMALY - Chair, Pierre COLIN - Honorary Chair and Gilles SALVAT - Managing General Director for Research and Reference of ANSES FRANCE

▶ 9.15 - 12.00    **Session 1 - Interactions between *Salmonella*, hosts and microbiota**

Chairpersons: Guntram GRASSL (Germany) and Isabelle VIRLOGEUX-PAYANT (France)

■ **Keynote: Intestinal glycosylation determines the host's susceptibility to *S. Typhimurium* infection**

Guntram GRASSL (Germany)

■ **Oral communications**

*Salmonella* Typhimurium is able to invade and survive intracellularly independently of its T3SS1

Sébastien HOLBERT (France)

Truncated variants of HilC and SipA are widespread in *Salmonella* Derby population and associated with reduced tropism to humans through impaired colonization of human cells

Melissa BERNI (Italy)

Quorum sensing autoinducer-3 in *Salmonella* Typhimurium: from its biosynthesis to its impact on cell physiology

Claire LALLEMENT (Denmark)

▶ 10.30 - 11.15 ■ **Coffee break and poster session**

Pathoadaptation of the passerine-associated *Salmonella enterica* serovar Typhimurium lineage to the avian host

*Ohad GAL-MOR (Israel)*

Intestinal inflammation caused by *Salmonella* Typhimurium is driven by SPI2, modulated by miRNAs, and modifies microbiota for its own benefit by inducing selective dysbiosis

*Sara ZALVIDAR-LOPEZ (Spain)*

*Salmonella* in pigs: impact on faecal microbiota related to the immune response

*Annaëlle KEROUATON (France)*

▶ 12.00 - 13.30 ■ **Lunch**

▶ 13.30 - 15.30 **Session 2 - Ecology and epidemiology along the food chain and beyond**

Chairpersons: Dariusz WASYL (Poland) and Marianne CHEMALY (France)

■ **Keynote: «Salmonella in the ecosystem»**

*Dariusz WASYL (Poland)*

■ **Oral communications**

*Salmonella* Kedougou, from feed to poultry farms using WGS

*Laetitia BONIFAIT (France)*

Investigating the dynamics of *Salmonella* contamination in Integrated Poultry Companies using a Whole Genome Sequencing approach

*Christian VINUEZA-BURGOS (Ecuador)*

Scoring the Farm-To-Fork chain and Machine Learning approach identified genetic determinants potentially involved in *S. infantis* resistance alongside food production chain

*Arianna PERUZZO (Italy)*

Biofilm formation promotes survival of multidrug resistant *Salmonella enterica* from farm to fork

*Ben PASCOE (United Kingdom)*

*Salmonella* transmission between pig farms and wild Griffon vultures under the One Health approach

*Clara MARIN (Spain)*

Reptile Associated Salmonellosis in England

*Ann HOBAN (United Kingdom)*

▶ 15.30 - 16.15 ■ **Coffee break**

▶ 16.15 - 18.15 **Session 3. Risk assessment and control measures**

Chairpersons: Koen DE REU (Belgium) and Laurent GUILLIER (France)

■ **Keynote: Identification of sources, risks and control measures for *Salmonella* contamination in poultry and pig slaughterhouses: case studies**  
*Koen DE REU (Belgium)*

■ **Oral communications**

Estimating the risk of *Salmonella* shedding at slaughter in fattening pigs  
*Maria BERNAD ROCHE (Spain)*

How are laying hen farms contaminated by *Salmonella*? Useful insights from official epidemiological surveys in outbreaks in France  
*Adeline HUNEAU (France)*

Projects to control *Salmonella* Infantis in Austria  
*Harald SCHLIESSNIG (Austria)*

*Salmonella* eradication in Finnish cattle and pig herds  
*Lena SEPPÄ-LASSILA (Finland)*

Control of *Salmonella* in Powdered Infant Formula  
*Pauline KOOH (France)*

Improved machine learning model for source attribution of *Salmonella enterica* subsp. *enterica* serovar Typhimurium and monophasic variants, using whole genome MLST loci  
*Jaromir GUZINSKI (United Kingdom)*

▶ 19.00 - 20.30 ■ **Official cocktail offered by CHECK-POINTS**

*Tuesday 21st June 2022*

▶ 9.15 - 12.00 **Session 4. Antimicrobial resistance and horizontal gene transfer**

Chairpersons: Fernando DE LA CRUZ (Spain) and Benoit DOUBLET (France)

■ **Keynote: Pathways of gene dissemination within the *Salmonella enterica* plasmidome**  
*Fernando De La Cruz (Spain)*

## ■ Oral Communications

Clinical Outcomes of Patients with Nontyphoidal Salmonella Infections by Isolate Resistance—FoodNet Sites, United States, 2004–2018

Louise FRANCOIS-WATKINS (*United States of America*)

Temporal trends and epidemiological patterns of antimicrobial resistance in human *Salmonella enterica* isolates in the Netherlands, 2008 to 2019

Linda CHANAMÉ PINEDO (*The Netherlands*)

### ▶ 10.15 - 10.45 ■ Coffee break

XDR *Salmonella enterica* serotype Typhi in France

Elisabeth NJAMKEPO (*France*)

Characterization of the emergence of multidrug resistant *Salmonella* Kentucky ST198 in poultry flocks in Spain

Clara SAMPER CATIVIELA (*Spain*)

Exploring the evolutionary success of the antibiotic-resistant *Salmonella* Kentucky ST198

Alaa ALBATIONY (*Belgium*)

Exploring plasmid diversity within *Salmonella* and other Enterobacterales communities in the swine gut microbiota using Hi-C proximity ligation sequencing

Destina MATTRASINGH (*Canada*)

### ▶ 12.00 - 13.30 ■ Lunch

## ▶ 13.30 -15.15 **Session 5. Whole Genome Sequencing and comparative genomics**

Chairpersons: Jay HINTON (*United Kingdom*) and François-Xavier WEILL (*France*)

■ **Keynote: «What whole-genome sequencing and functional genomics are teaching us about Salmonellosis in sub-Saharan Africa»**

Jay HINTON (*United Kingdom*)

## ■ Oral communications

Evolutionary dynamics of multidrug resistant *Salmonella enterica* serovar 4,[5],12:i:- in Australia

Danielle INGLE (*Australia*)

The genomic epidemiology of *Salmonella* Panama – an understudied serovar responsible for extraintestinal infections globally

Caisey PULFORD (*United KINGDOM*)

The whole-genome based population analysis of *Salmonella enterica* serovar Napoli  
Lize FREZAL (France)

Study of the genomic diversity of *Salmonella* Agona in France: a persistent serotype?  
Claire YVON (France)

The elephant in the *Salmonella* room: an integrated approach to determine the clade-specific signatures of invasive *Salmonella* Enteritidis  
Blanca PEREZ-SEPULVEDA (United Kingdom)

▶ 15.15 - 16.00 ■ **Coffee break**

▶ 16.00 - 18.00 **Session 6. New tools for *Salmonella* detection and characterization**

Chairpersons: Marc ALLARD (United States of America) and Anne BRISABOIS (France)

■ **Keynote: GenomeTrakr database and network updates: Lessons on what can be done with a million pathogen genomes**  
Marc ALLARD (United States of America)

### ■ **Oral communications**

*Salmonella* nomenclature in the genomic era: a time for change  
Marie Anne CHATTAWAY (United Kingdom)

qPCR METHOD FOR IDENTIFYING highly pathogenic SALMONELLA SEROTYPES  
Sabrina CADEL-SIX (France)

The importance of assessing mixed-serovar *Salmonella* populations  
Nikki SHARIAT (United Kingdom)

Classification of *Salmonella* serovars by genomic and epidemiological virulence traits  
Jane POUZOU (United Kingdom)

TyphiNET: An online dashboard for global genomic surveillance of *Salmonella* Typhi  
Zoe DYSON (United Kingdom)

Swine Serum Metabolome: A Potential Target for *Salmonella* Infection Diagnostic  
Guillaume LARIVIÈRE-GAUTHIER (France)

▶ 20.00 - 23.00: ■ **Official Gala dinner offered by Ceva Santé Animale**

# Wednesday 22nd June 2022

## ▶ 9.00 - 12.00 **Session 7. Epidemiology and Public health**

Chairpersons: Robert TAUXE (United States of America) and Nathalie JOURDAN-DA SILVA (France)

### ■ **Keynote: May 11, 2022 Update from the United States: Reducing Salmonella infections by 25% by 2030**

*Robert TAUXE (United States of America)*

### ■ **Oral Communications**

*Impact of whole genome sequencing on Salmonella surveillance in England*  
*Lesley LARKIN (United Kingdom)*

*Five years of sequence based surveillance in Denmark*  
*Mia TORPDAHL (Denmark)*

*Impact of the COVID-19 pandemic on Salmonella surveillance in England - Silver lining?*  
*Amy DOUGLAS (United Kingdom)*

### ▶ 10.15 - 10.45 ■ **Coffee break**

*Risk factors and within-patient evolution of persistent nontyphoidal Salmonella infections*  
*Roan PIJNACKER (The Netherlands)*

*One-Health approach to tackling endemic Salmonella Enteritidis ST11 circulation in the EU/EEA and the United Kingdom*  
*Johanna TAKKINEN (Sweden)*

*Genomic Characterization and Source Investigation of Salmonella enterica serovars Tennessee and Orion Causing Two Concurrent Outbreaks Linked with Tahini, Israel 2021*  
*Eugenia YAKUNIN (Israel)*


*Salmonella Typhimurium in herbal medicine causing severe outbreak in vulnerable population, Denmark 2021*  
*Louise MÜLLER (Denmark)*

*Large outbreak of Salmonella Muenchen linked to coconut pieces, September 2020 to April 2021, Germany: An effective interaction between epidemiology and microbiology*  
*Anika MEINEN (Germany)*

### ▶ 12.00 - 12.30 ■ **Closing ceremony:**

*by Henriette de Valk - Head of Department Foodborne, Vectorborne and Zoonotic Infections of Santé Publique France*

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