






12th Annual
Symposium
of the CRIPA



Day 1 - June 3, 2019 | AM


4th International Workshop on *Streptococcus suis*

8:00 - 8:30	Registration
8:30 - 8:45	Welcome talk; Acknowledgements (Prof. Mariela Segura and Prof. Marcelo Gottschalk)
8:45 - 9:00	 Dr. Rafael Blasco (SPAIN) Gold Sponsor Overview of the OECD Cooperative Research Program
Theme 1 Pathogenesis of the infection: host-pathogen interactions	
CHAIRS: Prof. Sekizaki (JAPAN) and Dr. Astrid de Greeff (THE NETHERLANDS)	
9:00 - 9:30	Keynote speaker – Prof. Jerry Wells (THE NETHERLANDS) Interactions of <i>Streptococcus suis</i> with the lympho-epithelial tissues of palatine tonsils
9:30 - 9:50	Peter Valentin-Weigand (GERMANY): Viral co-infection replaces effects of suilysin on adherence and invasion of <i>S. suis</i> into respiratory epithelial cells grown under air-liquid conditions
9:50 - 10:10	Ogi Okwumabua (USA): Replacement of the glutamate dehydrogenase gene of <i>S. suis</i> serotype 2 compromises growth and virulence
10:10 - 10:30	Gemma Murray (UK): The link between genome reduction and pathogenicity in <i>S. suis</i>
10:30 - 11:15	 Coffee break and poster session (45 min)
11:15 - 11:45	Keynote speaker – Dr. Masatoshi Okura (JAPAN) Switching of capsular type impacts on <i>Streptococcus suis</i> virulence in mice and pigs
11:45 - 12:05	Thomas Roodsant (THE NETHERLANDS): A human organoid model to study the translocation of <i>S. suis</i> in the human small intestine
12:05 - 12:25	Maria Laura Ferrando (THE NETHERLANDS): Growth of <i>S. suis</i> in normal porcine serum induces natural competence and increased expression of virulence factors and metabolic pathways predicted to promote survival in the blood and organs
12:25 - 14:00	 Lunch and poster session (95 min)

Day 1 - June 3, 2019 | PM

4th International Workshop on *Streptococcus suis*

Theme 2 Diagnosis and epidemiology of the *Streptococcus suis* infection in humans and pigs (1st part). CHAIRS: Dr. Nahuel Fittipaldi (CANADA) and Dr. Daisuke Takamatsu (JAPAN)

14:00 - 14:30	Keynote speaker – Prof. Constance Schultsz (THE NETHERLANDS) Novel insights in epidemiology and pathogenesis of zoonotic <i>Streptococcus suis</i> infections
14:30 - 14:50	Anusak Kerdsin (THAILAND): Situation of <i>S. suis</i> isolated from humans in Thailand
14:50 - 15:20	Keynote speaker – Dr. Mark O’Dea (AUSTRALIA) The genomics of Australian <i>Streptococcus suis</i> : where do we fit in the global scene?
15:20 - 15:40	José Luis Arnal (SPAIN): Updated study of characterization of <i>S. suis</i> isolates from Spanish pigs with meningitis
15:40 - 16:30	 Coffee break and poster session (50 min)



Theme 3 Antimicrobial resistance

CHAIRS: Dr. Nahuel Fittipaldi (CANADA) and Dr. Daisuke Takamatsu (JAPAN)

16:30 - 17:00	Keynote speaker – Dr. Lucy Weinert (UK) The genetic basis of antimicrobial resistance and virulence in <i>Streptococcus suis</i>
17:00 - 17:20	Virginie Libante (FRANCE): Key role of chromosomal mobile genetic elements transferred by conjugation in the dissemination of antimicrobial resistance in <i>S. suis</i>

Day 2 - June 4, 2019 | AM

4th International Workshop on *Streptococcus suis*

8:15 - 8:30	Registration (New participants)
Theme 4 Diagnosis and Epidemiology of the <i>Streptococcus suis</i> infection in humans and pigs (2nd part). CHAIRS: Dr. Susan Brockmeier (USA) and Prof. Vahab Farzan (CANADA)	
8:30 - 9:00	Keynote speaker – Dr. Astrid de Greeff (THE NETHERLANDS) <i>Streptococcus suis</i> serotype 9 infections; novel animal models and diagnostics
9:00 - 9:20	Zongfu Wu (CHINA): Identification of six novel capsular polysaccharide loci (NCL21-26) from <i>S. suis</i> multidrug resistant non-typeable strains and genome analysis of NCL4 strain WUSS351
9:20 - 9:40	Leann Denich (CANADA): Investigation into the serotypes of <i>S. suis</i> isolates in nursery pigs in Ontario, Canada
9:40 - 10:00	Han Zheng (CHINA): Genomic characteristics of <i>S. suis</i> sequence type 7 sporadic strains isolated in Guangxi Zhuang Autonomous Region of China
10:00 - 10:45	 Coffee break and poster session (45 min)
10:45 - 11:05	Alessandra Morelli (ITALY): Molecular typing and antimicrobial susceptibility profiles of <i>S. suis</i> isolated from diseased pigs in Italy
11:05 - 11:25	Rujirat Hatrongjit (THAILAND): Prediction of clonal complexes of <i>S. suis</i> by PCR
11:25 - 11:45	 Dr. Paul Lawrence: Newport Laboratories, Boehringer-Ingelheim Animal Health USA Inc. Gold sponsor <i>Streptococcus suis</i> serotyping based on whole genome sequencing and formulation of an inactivated vaccine capable of reducing mortality from a lethal challenge in young pigs
11:45 - 13:00	Lunch time and poster session (75 min) Registration for CRIPA members and veterinary practitioners

Day 2 - June 4, 2019 | PM Joint meeting: 4th International Workshop on *Streptococcus suis* and 12th Annual CRIPA Symposium

13:00 - 13:15	Welcome talk (Prof. Carl Gagnon); Acknowledgements (CRIPA)
Theme 5 Knowledge exchange activity for stakeholders: Prevention/control of <i>Streptococcus suis</i> diseases CHAIRS: Prof. Valentin-Weigand (GERMANY) and Prof. Maria Clavijo (USA)	
13:15 - 13:30	 Prof. Marcelo Gottschalk (CANADA) Summary of the problematic on the definition of <i>S. suis</i> virulence
13:30 - 14:00	 Keynote speaker – Dr. Susan Brockmeier (USA) The role of concurrent infections in predisposing to <i>Streptococcus suis</i> and other swine diseases
14:00 - 14:30	 Keynote speaker – Prof. Jeffrey J. Zimmerman (USA) Sorting out interactions in the field: challenges to understanding disease causality
14:30 - 14:45	Words from Gold Sponsors Ceva Biovac & Newport Laboratories, Boehringer-Ingelheim Animal Health Inc.
14:45 - 15:20	 Coffee break and poster session (35 min)
15:20 - 15:40	 Keynote speaker – Dr. Virginia Aragon (SPAIN) Perinatal antimicrobials: friend or foe?
15:40 - 15:55	 Prof. Mariela Segura (CANADA) Overview of <i>S. suis</i> vaccines
15:55 - 16:15	 Keynote speaker – Dr. Mariette Saléry (FRANCE) Recommendations for the manufacture, control and use of inactivated autogenous vaccines within the EEA
16:15 - 16:35	 Dr. Connie Gebhart and Dr. Douglas Marthaler (USA) Serotype and genotype of <i>S. suis</i> isolates from the United States serve as predictors of pathotype
16:35 - 17:00	Concluding remarks Prof. Mariela Segura and Prof. Marcelo Gottschalk (CANADA) Announcement of the 5th International Workshop on <i>Streptococcus suis</i>

18:00 **Pint of science (Graduate students and post-docs)**




19:30 **Gala diner (Researchers)**



Conferences in the continuous learning program for members of the OMVQ

Day 3 - June 5, 2019 | 12th Annual CRIPA Symposium

under construction...

8:15 - 8:30	Registration (New participants)
Theme Pathogenesis and pathobiomic approaches	
CHAIRS:	
8:30 - 9:00	New research axes of the CRIPA: Prof. Paul Thomassin (Canada) Economics of <i>Salmonella</i> as food safety risk and the related use of whole genome sequencing
9:00 - 9:45	Keynote speaker – Prof. (to be announced)
9:45 - 10:00	Presentation 1
10:00 - 10:45	 Coffee break and poster session (45 min)
Theme Vaccine and other strategies	
CHAIRS:	
10:45 - 11:30	Keynote speaker – Prof. Shayan Shariff (CANADA)
11:30 - 11:45	Presentation 2
11:45 - 12:00	Presentation 3
12:00 - 12:15	Presentation 4
12:15 - 13:30	 Lunch and poster session (45 min)
Theme Microbiota management and host health: an alternative strategy to dampen antibiotic resistance	
CHAIRS:	
13:30 – 14:00	CRIPA New initiative talk– Alexandre Thibodeau (CANADA) Fecal microbiota transplantation in healthy suckling piglets: success parameters to consider.
14:00 – 14:15	Presentation 6
14:15 – 14:30	Presentation 7
14:30 – 16:00	 Coffee break and poster session (90 min)
Theme Biosecurity from diagnostic to control measures	
CHAIRS:	
16:00 – 16:15	Presentation 8
16:15 – 16:30	Presentation 9
16:30 – 16:45	Presentation 10
16:45 - 17:00	12 th Annual CRIPA Symposium - Students awards

We thank our generous sponsors for supporting the 4th IWSs!

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