

# Flavobacterium 2018

5th International Conference of Members of the Genus *Flavobacterium*  
27-29 November, Nara, Japan

## Scientific Program and Agenda

### Tuesday, 27, November

10:00-10:10 Welcoming remarks

10:10-10:30 Keynote                      KN-1 **Jean-François Bernardet**  
A *Flavobacterium* World Tour

10:30-10:50 Session 1                      O-2 **Hisatsugu Wakabayashi**  
BCWD in Japan                      Outbreaks of Bacterial Cold-Water Disease in Japan : a Review

10:50-11:10                                      O-3 **Akira Kumagai**  
Pre-water-hardening disinfection with povidone iodine of fertilized eggs: a new promising disinfection procedure for prevention of the transovarian transmission of Bacterial Cold-Water Disease

11:10-11:30 Coffee break

11:30-11:50                                      O-4 **Shotaro Izumi**  
Epizootiological study of Bacterial Cold-Water Disease using PCR-RFLP genotyping of *Flavobacterium psychrophilum*

11:50-12:10                                      O-5 **Erina Fujiwara-Nagata**  
Mechanisms of survival for two lineages of *Flavobacterium psychrophilum*, ST52 and ST48

12:10-12:30                                      O-6 **Michitaka Yamamoto**  
Epidemiological Study of *Flavobacterium psychrophilum* in Ayu in Lake Biwa, Japan

12:30-14:00 Lunch

14:00-14:20                                      O-7 **Kazuhiro Sugahara**  
Chemotherapy and warmed water treatment for Bacterial Cold-Water Disease in ayu

14:20-14:40                                      O-8 **Takahiro Nagai**  
Development of vaccines and resistant stocks against bacterial coldwater disease in ayu *Plecoglossus altivelis*

14:40-15:00 Discussion

15:00-15:30 Coffee break/ Poster

15:30-15:50 Session 2                      O-9 **Benjamin R. LaFrentz**  
Diversity                                      Identification of four distinct phylogenetic groups in *Flavobacterium columnare* with fish host associations

15:50-16:10                                      O-10 **Benjamin R. LaFrentz**  
Multiplex PCR for rapid genotyping of *Flavobacterium columnare*

16:10-16:30                                      O-11 **Thomas P. Loch**  
Fish-Associated Flavobacterial Diversity in the USA and its Impact on Disease Prevention and Control

16:30-16:50                                      O-12 **Gregory D. Wiens**  
Comparative Structural and Antigenic Characterization of Genetically Distinct *Flavobacterium psychrophilum* O-Polysaccharides

16:50-17:10                                      O-13 **Jihyun F. Kim**  
Genomics and metagenomics of marine and soil flavobacteria

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### Wednesday, 28, November

9:00-9:20	Session 3 Bacteriophage	O-14 <b>Valentina L. Donati</b> Bacteriophage – based prophylactic treatment of rainbow trout to control <i>Flavobacterium psychrophilum</i> infections
9:20-9:40		O-15 <b>Lone Madsen</b> Potential prophylactic measures and treatment methods against infections with <i>Flavobacterium psychrophilum</i>
9:40-10:00		O-16 <b>Krister Sundell</b> Virulence and phenotypic traits of <i>Flavobacterium psychrophilum</i> isolated from Bacterial Cold-Water Disease outbreaks
10:00-10:20		O-17 <b>Tom Wiklund</b> Loss of virulence and altered phenotypic characteristics in phage-resistant <i>Flavobacterium psychrophilum</i>
10:20-10:40		O-18 <b>Heidi M. T. Kunttu</b> Phage resistant <i>Flavobacterium columnare</i> mutants: a challenge for phage therapy?
10:40-11:10	Coffee break/ Poster	
11:10-11:30	Session 4 Drug resistance	O-19 <b>Hafizah Y. Chenia</b> South African indigenous plant extracts serve as efflux pump inhibitors to restore the efficacy of antimicrobial agents against <i>Flavobacterium</i> spp. Isolates
11:30-11:50		O-20 <b>Hafizah Y. Chenia</b> Resistance modifying activity of <i>Warburgia salutaris</i> facilitates synergistic interaction with antimicrobial agents against <i>Flavobacterium</i> spp. isolates
11:50-12:10		O-21 <b>Eva Jansson</b> Disinfection of eyed eggs from rainbow trout ( <i>Oncorhynchus mykiss</i> ) in order to reduce the infection level of <i>Flavobacterium psychrophilum</i>
12:10-12:30	Session 5 Biofilm	O-22 <b>David W. Hunnicutt</b> <i>Flavobacterium johnsoniae</i> biofilm formation is dependent on the type 9 secretion system
12:30-14:00	Lunch	
14:00-14:20		O-23 <b>Miles D. Lange</b> Fish mucus alters the <i>Flavobacterium columnare</i> biofilm transcriptome
14:20-14:40		O-24 <b>Miles D. Lange</b> Stress hormone cortisol helps to drive biofilm formation in <i>Flavobacterium columnare</i>
14:40-15:00	Session 6 Epidemiology	O-25 <b>Remziye Eda Yardimci</b> First report of <i>Chryseobacterium balustinum</i> infection in cultured rainbow trout ( <i>Oncorhynchus mykiss</i> ) in Turkey
15:00-15:20		O-26 <b>Pattanapon Kayansamruaj</b> Occurrence of mass mortality in the freshwater farmed Asian seabass ( <i>Lates calcarifer</i> ) concurrently infected with <i>Flavobacterium columnare</i> and infectious spleen and kidney necrosis virus (ISKNV)
15:20-15:50	Coffee break/ Poster	
15:50-16:10		O-27 <b>Sudeshna Sarker</b> Prevalence of columnaris disease and other flavobacterial infections in freshwater finfish cultured in West Bengal, India
16:10-16:30	Session 7 Pathogenicity	O-28 <b>Takahiro Nagai</b> Differences in pathogenicity of <i>Flavobacterium psychrophilum</i> isolates against two stocks of ayu <i>Plecoglossus altivelis</i>
16:30-16:50		O-29 <b>Michitaka Yamamoto</b> Non-cultured <i>Flavobacterium psychrophilum</i> is highly virulent to ayu
16:50-17:10		O-30 <b>Yutaka Nakai</b> A new culture medium to maintain the virulence of <i>Flavobacterium psychrophilum</i>

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### Thursday, 29, November

9:00-9:20	Session 8 Genome and ecology	O-31 <b>Eric Duchaud</b> <i>Flavobacterium psychrophilum</i> : what's up bug?
9:20-9:40		O-32 <b>Cyprien Guérin</b> A website to explore the condition-dependant transcriptome of <i>Flavobacterium psychrophilum</i> across lifestyles
9:40-10:00		O-33 <b>Tatiana Rochat</b> Investigating iron acquisition systems of the fish pathogen <i>Flavobacterium psychrophilum</i> by a combination of transcriptomic and genetic approaches
10:00-10:20		O-34 <b>Kento Tominaga</b> New lineages of marine Bacteroidetes viruses identified by MAG-based host prediction and their ecological interaction with hosts bacteria
10:20-10:50	Coffee break	
10:50-11:20	General discussion	
11:20-11:30	Closing remarks	
12:00-13:30	Lunch	
13:30-16:30	World heritage tour	

### Tuesday, 27 - Wednesday, 28, November

Posters	Epidemiology	P-35 <b>Shotaro Nishikawa</b> Monitoring of <i>Flavobacterium psychrophilum</i> and Salmonid viruses in aquatic organisms in a River near a hatchery in Hokkaido, Japan
	Host-pathogen interaction	P-36 <b>Nayu Kawashima</b> The change of resistance to <i>Flavobacterium psychrophilum</i> in ayu <i>Plecoglossus altivelis</i> with sexual maturation