

CONFERENCE PROGRAM



2nd International Conference of Fish & Shellfish Immunology

Holiday Inn by the Bay
Portland, Maine
26th – 30th June, 2016



Sunday June 26th, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
4:00pm	Registration Opens	Poster & Exhibitor Set-Up		
6:00pm		Opening Reception		

Monday June 27th, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
7:15am	Registration Portland Convention & Visitors Bureau available	Breakfast		
9:00am				KEYNOTE: Prof. Christopher Secombes What's new in fish cytokine research?
10:00am		Refreshments		
10:30am			Session 1: Crustacean Immunology	Session 2: Vaccines & Vaccination
10:45am			O-002 Fraser Clark An RNA-seq-based approach to understanding the immune system of the American lobster (<i>Homarus americanus</i>)	O-019: Jesus Lamas Relationships between cell migration, adhesion, apoptosis and gene expression in free and attached peritoneal cells in Turbot after administration of vaccines containing <i>P.dicentrarchi</i> antigen and different adjuvants
11:00am			O-003 Cheng Cheng Shun Lipid metabolism during WSSV infection in shrimp	O-020: Leidy Lagos Vaccination with outer membrane vesicles against intracellular pathogens for aquaculture
11:15am			O-005 Kejian Wang Several newly identified immune-associated components in mud crab (<i>Scylla paramamosain</i>) and their potential anti-infection functions	O-021: Uwe Fischer Adoptive transfer of immunity against Red Mouth disease in Rainbow Trout (<i>Oncorhynchus mykiss</i>)
11:30am			O-006 Ikuo Hirono Studies on molecular markers for hemocytes in Kuruma shrimp <i>Marsupenaeus japonica</i>	O-022: Rezkar Jaafar Mohammad Oil adjuvant elevates protection of rainbow trout (<i>Oncorhynchus mykiss</i>) following injection vaccination against <i>Yersinia ruckeri</i>
11:45am			O-008 Han-Ching Wang Fatty acid synthase and the lipogenic phenotype in WSSV-infected shrimp	AO-001 Huong Thi Dang CD56 (NCAM1) in rainbow trout – molecular and functional characterization
12:00pm		Lunch		O-024 Rowena Hoare Protection of Rainbow Trout (<i>Oncorhynchus mykiss</i> L.) against <i>Flavobacterium psychrophilum</i> by immersion and injection vaccination using a novel polyvalent vaccine

Monday June 27th, 2016 (contd)

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
1:30pm			Session 1 (contd): Crustacean Immunology O-010 Haipeng Liu White spot syndrome virus entry is multiple ways dependent	Session 2 (contd): Vaccines & Vaccination O-025 Scott E. LaPatra Efficacy testing of a 35 year old commercially produced <i>Yersinia ruckeri</i> bacterin for the control of enteric redmouth (ERM) disease
1:45pm			O-011 Mi-De Yeh Characterization and involvement of TOLL and IMD pathways in AHPND-infected shrimp	O-026 Kimberly Veenstra Immune responses in Rainbow Trout (<i>oncorhynchus mykiss</i>) following the administration of cell-mediated and humoral w/o adjuvanted vaccines post-vaccination and post-challenge
2:00pm			O-012 Mukesh Kumar Chaurasia A comparative statement on molecular approach of large HSPS from <i>Macrobrachium rosenbergii</i>	O-028 Louise von G Jørgensen Antigen uptake in Zebrafish (<i>Danio rerio</i>) at different life stages
2:15pm			Session 3: Effects of Diet on the Immune System O-033 Samuel A M Martin Gut health and integrity in Atlantic salmon fed plant protein diets	O-029 Sarah J. Poynter Understanding viral DSRNA production, cell entry, and use as an antiviral therapeutic in Rainbow Trout
2:30pm			O-034 Nellie Gagné Nutrigenomics study in Atlantic salmon (<i>salmo salar</i>) fed novel diets supplemented with marine by-products	O-030 Kasper Rømer Villumsen Liposomal and CpG oligodeoxynucleotide-based vaccine formulations offer protection with reduced adverse effects in Rainbow Trout
2:45pm			O-035 Patrick Kestemont Innate immune system modulation and disease resistance in Eurasian Perch fed contrasted LC-PUFA dietary contents	O-027 Haruya Miyazawa Antigen uptake in gill epithelium of Rainbow Trout and Ayu during bath-vaccination
3:00pm		Refreshments		

Monday June 27th, 2016 (contd)

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
3:30pm			<p>Session 3: Effects of Diet on the Immune System (contd)</p> <p>O-036 Felix Acosta Effect of dietary supplementation with bacillus <i>amyloliquefaciens</i> in the innate immunity in the European sea bass (<i>Dicentrarchus labrax</i>)</p>	<p>Session 2 (contd): Vaccines & Vaccination</p> <p>O-013 Moonika H. Marana Testing experimental subunit furunculosis vaccines for Rainbow Trout</p>
3:45pm			<p>O-031 Wanna Sirimanapong Effects of dietary mannan oligosaccharide and organic selenium on blood component, non-specific immune response and resistance to <i>Streptococcus agalactiae</i> in Nile tilapia (<i>Oreochromis niloticus</i>)</p>	<p>O-014 Adef Kordon Innate and adaptive immune responses of Catfish antigen-presenting cells to live attenuated <i>Edwardsiella ictaluri</i> vaccines</p>
4:00pm			<p>Session 4: Fish Immunology</p> <p>O-078 Aitor G. Granja Teleost B cell-activating factor (BAFF) differentially regulates B cell activity in lymphoid and mucosal tissues</p>	<p>O-015 Ronan N. Rouxel Attenuated Infectious Hematopoietic Necrosis Virus (IHNV) with rearranged gene order as potential vaccine</p>
4:15pm			<p>P-048 Laura Braden Resolution of <i>Kudoa thyrsites</i> infection is associated with infiltration of mhiβ+ cells in Atlantic salmon, <i>Salmo salar</i></p>	<p>O-016 Carmen WE Embregts Characterization of local, systemic and mucosal immune responses after oral DNA vaccination against Spring Viremia of Carp virus</p>
4:30pm			<p>P-073 Sarah Poynter Comparing the effects of different types and lengths of extracellular double-stranded RNA molecules in Rainbow Trout cells</p>	<p>O-017 Miles D. Lange Missing the target: DNAk is a dominant epitope in the humoral immune response of channel catfish (<i>Ictalurus punctatus</i>) to <i>Flavobacterium columnare</i></p>
4:45pm			<p>O-087 Mario Pablo Estrada Recent discoveries of Pituitary adenylate cyclase-activating peptide (PACAP) function in the teleost fish adaptive immunity</p>	<p>O-018 Yamila Carpio Sea lice vaccine development based on an immunogenic peptide derived from the ribosomal protein P0</p>
5:15pm		Poster Presentations		

Tuesday June 28th, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
7:15am	Registration Portland Convention & Visitors Bureau available	Breakfast		
9:00am				KEYNOTE: Prof. Bassem Allam Bivalve immunity and response to infections: Are we looking at the right place?
10:00am		Refreshments		
10:30am			Session 5: Functional Genomics O-053 Geert Wiegertjes Facing the challenge of a functional characterization of TOLL-like receptor (TLR)1 and TLR2 in Common Carp	Session 4: Fish Immunology (contd) O-037 Zhen Xu Local induction of IGT responses to pathogens and microbiota in the gill of Rainbow Trout
10:45am			O-054 Giuseppe Scapigliati IGT and IGD from Sea Bass (<i>Dicentrarchus labrax</i>): localization of expressing and immunoreactive cells in lymphoid tissues	O-038 Daniel Barreda Leukocyte contributions to the induction and resolution of acute inflammation in teleost fish
11:00am			O-055 Sumaira Bilal Characterization of IgM in Norwegian cleaner fish (lumpfish and wrasses)	O-039 Yasuhiro Shibasaki Effects of IFNY administration on allograft rejection in Ginbuna Crucian Carp
11:15am			O-058 Fumihiko Katakura Identification and functional characterization of two granulocyte colony-stimulating factors of Common Carp	O-040 Beatriz Abós Differential effects of Interleukin 6 and lipopolysaccharide on Teleost B lymphocytes
11:30am			O-056 Rajesh Palanisamy <i>Channa striatus</i> TNFR-1: molecular cloning, characterization and gene expression	O-041 Robert Sygghalirwa Mandiki Characterization of neurophysiological and immune responses of Pikeperch juveniles to major stress factors under intensive culture conditions
11:45am			O-057 Cuiluan Yao Molecular and immune response characterizations of IL-6 in large yellow croaker (<i>Larimichthys crocea</i>)	O-042 Max Chappell Differences in Sockeye Salmon Antibody Composition: Testing the Immunological Imprinting Hypothesis
12:00pm	Elsevier Editors meeting in Oxford room	Lunch		

Tuesday June 28th, 2016 (contd)

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
1:30pm			Session 5 (contd): Functional Genomics O-059 Francis LeBlanc RNA-SEQ analysis in gills of Atlantic salmon (<i>salmo salar</i>) infected with newly identified ISAV strains in the Atlantic Canada region	Session 4 (contd): Fish Immunology O-043 Tomáš Korytář Simultaneous kinetic analysis of resting and proliferative B and T lymphocytes following pathogenic challenge in Rainbow Trout (<i>oncorhynchus mykiss</i>)
1:45pm			O-060 Tingyu Wang Identification and characterization of Heat Shock Transcription Factor 1 isoforms in Orange-spotted Grouper (<i>Epinephelus coioides</i>)	O-044 Yuta Matsuura Purification and characterization of a fish granzymeA involved in cell-mediated immunity
2:00pm			O-061 Aleksei Krasnov Smoltification and breeding for rapid growth may suppress immunity of Atlantic salmon: evidence from transcriptome analyses	O-045 John Han You Lin Administrated grouper (<i>Epinephelus coioides</i>) recombinant interleukin-6 as a fish immunostimulant via various administrated routes
2:15pm			O-062 Jun-ichi Hikima Functional characterization of recombinant interleukin (IL)-17a/F1 in the Japanese Pufferfish (<i>Takifugu rubripes</i>)	O-046 Jun Wang Characterisation of transcription factors in rainbow trout potentially involved in dendritic cell maturation and activation
2:30pm			O-063 Jorunn B. Jørgensen A role of salmon SOS1 in antiviral immunity?	O-047 Luis A. Mercado Approximation of immune response abilities in salmonid gills using the RTgill-W1 cell line as an <i>in vitro</i> model
2:45pm			O-064 Ivar Hordvik Somatic hypermutation introduces a high frequency of amino acid substitutions in the constant region of the T cell receptor alpha chain in Ballan wrasse (<i>Labrus bergylta</i>)	O-048 Venkatesh Kumaresan Membrane disruption antimicrobial mechanism of <i>Channa striatus</i> lysozyme-derived antimicrobial peptide
3:00pm		Refreshments		

Tuesday June 28th, 2016 (contd)

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
3:30pm			Session 7: Molluscan Immunology O-065 Beatriz Novoa Antimicrobial peptides from mussel <i>Mytilus galloprovincialis</i> : the myticins	Session 4 (contd): Fish Immunology O-049 Fumio Takizawa Depletion of IGT+ B cells in Rainbow Trout points to an essential role of IGT in microbiome homeostasis and clearance of mucosal pathogens
3:45pm			O-068 Wen Chungen Molecular cloning and expression of I-type Lysozyme and phage-type like lysozyme gene from freshwater shellfish	O-050 Jianmin Ye Long-lived plasma cells secrete antibodies possessing high affinity in Channel Catfish
4:00pm			O-066 Linsheng Song The Immune Defence Mechanisms of Marine Bivalves	O-051 Patricia Pereiro Nk-lysin, an antimicrobial peptide expressed in fish erythrocytes is involved in antiviral defense
4:15pm			O-067 Lingling Wang The neuroendocrine-immune regulatory network characterized as simple structure but complex function in Oyster <i>Crassostrea gigas</i>	O-052 Aitor G. Granja Phenotypical and functional characterization of teleost mucosal CD8a+ dendritic cells
5:15pm	Depart hotel to walk to ferry terminal for Lobster Bake on Peaks Island			

Wednesday June 29th, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
7:15am		Breakfast		
9:00am				KEYNOTE: Prof. Marta Gomez-Chiarri Novel expanded immune gene families in the Eastern oyster <i>Crassostrea virginica</i>
10:00am		Refreshments		
10:30am			Session 6: Host-Pathogen Interactions O-075 Ottavia Benedicenti Atlantic salmon physiological and immune response to amoebic gill disease and insight into the biology of the amoeba	Session 4 (contd): Fish Immunology O-069 Ali Sepahi Tissue microenvironments within the nasal mucosa of Rainbow Trout compartmentalize nasal immune response
10:45am			O-076 Jessica Piesz Effects of the secretory/excretory products of <i>lepeophtheirus salmonis</i> on Atlantic salmon leukocyte migration	O-070 Thitiya Summathed Characterisation and bioactivities of Type I interferon subtype E and F in salmonids
11:00am			O-077 Shun Maekawa Constitutively overexpressed Type I interferon transgenic Medaka fish down-regulate the antiviral response	O-071 Carolina Aquilino CK9, an ancient Rainbow Trout chemokine that attracts and regulates B lymphocytes and macrophages
11:15am			O-084 Nicholas C. Fargnoli Diurnal and seasonal rhythm of total antioxidant capacity and reactive oxygen and nitrogen species in Atlantic salmon	O-072 Goshi Kato Characterization of antigen sampling cells in Rainbow Trout gill epithelium
11:30am			O-079 Susanna Magadan Comparison of clonal complexity of primary and secondary trout IGM and IGT response using deep sequencing	O-073 Gyri T. Haugland Characterization of dendritic-like cells generated from hematopoietic spleen cultures from Atlantic salmon (<i>Salmo salar</i> L.)
11:45am			O-080 Xing Jing Expression and characterization of Toll-like receptor 3 (TLR3) in turbot (<i>Scophthalmus maximus</i>)	O-074 Anita Rønneseth Neutrophil granulocytes in Atlantic salmon (<i>Salmo salar</i> L.) are MHCII positive antigen-presenting cells
12:00pm		Lunch		
12:45pm	Depart hotel for field trip to visit Mussel Farms in Casco Bay			
1:30pm	Depart hotel for shopping trip to Freeport			

Thursday June 30th, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
7:15am		Breakfast		
9:00am				KEYNOTE: Prof. Jeff Yoder The astounding and confounding complexity of innate immune receptors within and between teleost species
10:00am		Refreshments		
10:30am			Session 7: Molluscan Immunology O-093 Brian Preziosi Morphological characterization via light and electron microscopy of Atlantic jackknife clam (<i>Ensis directus</i>)	Session 6: Host-Pathogen Interactions O-081 Alejandro Romero Development of a Zebrafish larvae infection model to study virulence factors of <i>A. hydrophila</i>
10:45am			O-094 Christine M. Paillard Immune response of mollusks affected by a temperature-dependant vibriosis : a comparative review	O-082 Daisy Vanrompay Recombinant Ferritin-H induces immunosuppression in European sea bass larvae (<i>dicentrarchus labrax</i>) rather than immunostimulation and protection against <i>vibrio anguillarum</i>
11:00am			O-095 Rebeca Moreira Sanmartín Bivalves hemocyte transcriptomes reveals a powerful differential immune response of mediterranean mussel (<i>mytilus galloprovincialis</i>)	O-083 Julia Isabel Tandberg Zebrafish as a model host for studies of <i>Piscirickettsia salmonis</i> and its outer membrane vesicles
11:15am			O-096 Bruno Dubief Differential resistance to bacterial infection of two populations of the European abalone <i>Haliotis tuberculata</i> against the bacterium <i>Vibrio harveyi</i>	O-092 Mélodie Schmitz Chronic saline exposures interfere with basal and induced immunity in striped catfish (<i>Pangasianodon hypophthalmus</i> , Sauvage) exposed to virulent strain of <i>Edwardsiella ictaluri</i>
11:30am			O-097 Yosra Ben Cheikh First evidence for a <i>vibrio</i> strain pathogenic to <i>Mytilus edulis</i> altering hemocyte immune capacities	O-085 Shawna L. Semple Using Rainbow Trout cell lines to study and understand the pathogenesis of the coldwater pathogen, <i>Flavobacterium psychrophilum</i>
11:45am			O-098 Davide Malagoli PC-Astakine MRNA levels decrease after both LPS injection and hemolymph withdrawals in the Gastropod pest <i>Pomacea canaliculata</i>	O-086 Daniel Makrinos A comparative immune response to <i>Piscirickettsia salmonis</i> grown in alternative media
12:00pm		Lunch		

Thursday June 30th, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
1:30pm			Session 4 (contd): Fish Immunology O-088 Fumio Takizawa Surface expression of Trout CD4-1 and CD4-2 defines novel populations of functionally distinct CD4+ T cells in teleost fish	Session 6: Host-Pathogen Interactions P-039 Jassy M Lazarte Enhancement of immunogenicity in glycoprotein-based DNA vaccine by the addition of DDX41, a molecular adjuvant
1:45pm			O-089 Mauricio Castellano Aquaculture of Russian sturgeon in Uruguay: decrease of the innate defenses in summer and its association with high temperatures	O-100 Maria Forlenza Looking through transgenic Zebrafish to reveal novel mechanisms of host-parasite interaction: <i>in vivo</i> real-time imaging of a trypanosome infection
2:00pm			O-090 Masahiro Sakai Immune responses to alum in the Japanese Pufferfish (<i>Takifugu rubripes</i>)	O-101 Pierre Boudinot Disparate developmental patterns of immune responses to bacterial and viral infections in fish
2:15pm			O-091 Shigeyuki Tsutsui Mannose-specific immunoglobulin M in the mucus of <i>Fugu takifugu rubripes</i> is utilized by a monogenean parasite <i>Heterobothrium okamotoi</i> for host recognition	O-102 Mark Polinski Effects of piscine reovirus infection on innate immune signaling in Salmon
2:30pm			Session 8: Echinoderm Immunology O-104 Osamu Nakamura Hemagglutinins on the body surface of Sea Cucumber, <i>Apostichopus japonicus</i>	O-103 Jiann R. Hong Infectious spleen and kidney necrosis virus (ISKNV) used a novel strategy to modulate the mitochondria/caspases -mediated cell death pathway via ROS signaling in a fish cell line
2:45pm			Oral sessions end	
3:00pm		Refreshments		
3:30pm			Conference Close	
3:45pm			ISFSI General Assembly	
6:15pm	Conference Photograph			
6:45pm				Cash Bar Opens
7:00pm				Conference Banquet Dinner Service Starts at 7:00pm

Friday July 1st, 2016

	LOBBY	CASCO BAY ROOM	CONNECTICUT/RHODE ISLAND ROOMS	VERMONT/NEW HAMPSHIRE ROOMS
8:00am	Depart hotel for field trip to Damariscotta			