

Session Name and Date	Day	Time	ID No.	Presenter	Title	Chairpersons
Special Symposium "Recognition Mechanisms – Current Topics in Comparative Biology –" (SS)	Mon	15:30	SS-1	B-L. Lee	Recognition of Pathogenic or Symbiotic Bacteria and Immune Responses in Insects	H. Wago H. Nakamura
		15:55	SS-2	R. Furukawa	Immunological Recognition in Starfish Larvae and Adults: The Alteration of Immune Cells Via Metamorphosis	
		16:20	SS-3	D. Kojima	OPN5, a Photosensory Protein for Mammalian Ultraviolet Photoreception	
		16:45	SS-4	H. Satake	Ligand recognition and signal transduction of GPCRs and Toll-like receptors of the protochordate, <i>Ciona intestinalis</i> : what is evolutionarily common or unique?	
		17:10	SS-5	M. Yoshikuni	Comprehensive Analysis of Neuropeptides of Marine Invertebrates	
		17:35	SS-6	T. Sakurai	Specificity and Sensitivity of Sex Pheromone Perception in the Silkworm <i>Bombyx mori</i>	

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Antimicrobial peptides/proteins (AMP)	Tue	16:40	AMP-O1	Xinhua Chen	Analysis on the gene diversity of hepcidin gene in large yellow croaker	S. Kawabata L. Rollins-Smith
		17:00	AMP-O2	James D. Pask	Normal constitutive secretion of skin peptides defends northern leopard frogs (<i>Rana pipiens</i>) against chytridiomycosis	
		10:15	AMP-O3	Hai-Peng Liu	Antibacterial responses in the crab <i>Scylla paramamosain</i>	
		10:35	AMP-O4	K. Wang	Scygonadin expression in <i>Scylla paramamosain</i> potentially associated with reproductive immunity	
		10:55	AMP-O5	C. Li	Two novel families of antimicrobial peptides in the green sea urchin <i>Strongylocentrotus droebachiensis</i>	
	Poster		AMP-P1	K. Shen	Escherichia coli DNA enhances the expression of attacin in <i>Drosophila</i> hemocyte cell line Mbn-2	
			AMP-P2	M. Guo	Antiviral effects of beta-defensin derived from orange-spotted grouper, <i>Epinephelus coioides</i>	
			AMP-P3	S. Wei	Molecular cloning and characterization of c-type lysozyme gene in orange-spotted grouper, <i>Epinephelus coioides</i>	
			AMP-P4	S. Hipolito	Role of <i>Marsupenaeus japonicus</i> crustin-like peptide against <i>Vibrio parahaemolyticus</i> and white spot virus infection	
			AMP-P5	Bo-Hye Nam	An antimicrobial histone H1-like protein and its gene from the testes of <i>Paralichthys olivaceus</i>	
			AMP-P6	C.H. Bigger	Antimicrobial activity in aqueous extracts of the caribbean octocoral <i>Swiftia exserta</i> .	
			AMP-P7	Klara Stensvåg	Antibiotics from the sea – a MabCent project	

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Antiviral immunity (AVI)	Tue	11:30	AVI-O1	Chu-Fang Lo	Spawning stress triggers WSSV replication in brooders via the activation of shrimp STAT	I. Hirono C-F. Lo	
		11:50	AVI-O2	Apiruck Watthanasurorot	A gC1qR Prevents White Spot Syndrome Virus Replication in the Freshwater Crayfish <i>Pacifastacus leniusculus</i>		
		12:10	AVI-O3	Mei-An Su	The <i>Litopenaeus vannamei</i> LvRheb Protein is Involved in White Spot Syndrome Virus (WSSV) Pathogenesis		
		13:30	AVI-O4	S. Mangkalan	Hemocytic Response in Persistent WSSV Infection in the Mud Crab, <i>Scylla olivacea</i>		
		13:50	AVI-O5	J-X Wang	Prohibitin interacts with VP28 and prevents WSSV replication in red swamp crayfish, <i>Procambarus clarkii</i>		
		14:10	AVI-O6	T. Somamoto	Functions of CD8-positive and CD4-positive lymphocytes against virus-infection in ginbuna crucian carp		
		14:30	AVI-O7	P. H. Pham	Viral hemorrhagic septicemia virus genotype IV is differentially virulent toward Rainbow trout gills and monocyte/macrophage	M. Sakai T. Somamoto	
		14:50	AVI-O8	Fang-Huar Ngou	Virus-Host Interactions of Nervous Necrosis Virus in Grouper GK cell by Transcriptomic Analysis		
		15:10	AVI-O9	S. Patel	Nodavirus infection induces up-regulation of IFN γ and T-helper cell markers.		
		16:00	AVI-O10	Joeri Kint	Mechanism of suppression of type-I interferon signaling by the chicken infectious bronchitis coronavirus	P. Boudinot M. Sakai	
		16:20	AVI-O11	B. Gorgoglione	ASSESSMENT OF THE IMMUNE RESPONSE MODULATION BY CO-INFECTIONS: PKD/VHS EFFECTS IN BROWN TROUT		
		16:40	AVI-O12	C. Langevin	Restriction mechanisms of fish rhabdoviruses by the zebrafish ISG15 protein		
	Poster			AVI-P1	C.-Y. Chang	Differential expression profiles of orange-spotted grouper under grouper iridovirus infection	
				AVI-P2	Y. J. Lee	Identification of the Envelope Protein VP51B of Shrimp White Spot Syndrome Virus (WSSV)	
				AVI-P3	T.Y. Chen	Grouper HSP90 Interacts with Nodavirus Coat Proteins and Participates in Nodavirus Replication	
				AVI-P4	T.Y. Chen	Identification of Leucine Zipper Domain of Antiviral Mx Protein Interfere with Nodavirus Coat Protein Localization	
				AVI-P5	H. Huang	The study of protein-protein interaction between white spot syndrome virus and glucose transporter Glut1	
				AVI-P6	Rong-yuan Chen	Identification of genes differentially expressed in in vitro haematopoietic tissue stem cells of <i>Cherax quadricarinatus</i> in response to WSSV infection	
				AVI-P7	Shau-Chi Chi	Betanodavirus-induced IFN response and Mx expression makes barramundi (<i>Lates calcarifer</i>) more resistant to red sea bream iridovirus infection	
				AVI-P8	Apiruck Watthanasurorot	New insights into extracellular function of TCTP as an antiviral infection in <i>Pacifastacus leniusculus</i>	
				AVI-P9	Youhua Huang	MAPK signaling pathway was involved in Singapore grouper iridovirus (SGIV) infection	

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Complement and Complement-like factors (CMP)	Tue	16:00	CMP-O1	Irene Söderhäll	TEPs (thioester containing proteins) and ficolins; structure and function in a crustacean	M. Nakao M. Nonaka
		16:20	CMP-O2	A. Tassanakajon	A Vital Role of Alpha-2-Macroglobulin in Prevention of Bacterial-Mediated Fibrinolysis in the Blood Coagulation System of Shrimp	
		16:40	CMP-O3	T. Sasaki	Cytolytic factor in the mosquito	
	Wed	10:15	CMP-O4	T. Fujita	MBL-associated serine protease (MASP)-1/3 promotes the activation of the alternative complement pathway	T. Fujita C. Kemper
		10:35	CMP-O5	Vo Kha Tam	Isotypic Diversity in the Ontogenetic Expression of the Complement Component in the Common Carp (<i>Cyprinus carpio</i>)	
		10:55	CMP-O6	Jun Li	Survivability of <i>Edwardsiella tarda</i> in Fish Serum Relates to Bacterial Surface LPS	
		11:15	CMP-O7	T. Yamaguchi	Identification of Pattern-Recognition Molecule in Hagfish Complement System	
		11:35	CMP-O8	P. Kopáček	Functional Genomics of Tick Thioester-Containing Proteins and Other Complement-Related Molecules	
		11:55	CMP-O9	K. Tagawa	Microbe-specific C3b deposition in the horseshoe crab complement system in a C2/factor B-dependent or -independent manner	
	Poster	CMP-P1	Rui Li	Unique Functions of MASPs in <i>Amphioxus</i>		
		CMP-P2	M. G. Castillo	Identification and Initial Characterization of a Thioester-Containing Protein (TEP) in the Squid <i>Euprymna scolopes</i>		

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Cytokine and chemokine (CCK)	Mon	15:30	CCK-O1	D. Malagoli	Drosophila Helical factor acts as an inducible cytokine in S2 cells	C. Secombes T. Kono	
		15:50	CCK-O2	John Han-You Lin	The bioactivity of teleost IL-6: orange-spotted grouper (<i>Epinephelus coioides</i>) IL-6 induce Th2 cell differentiation pathway and antibody production		
		16:10	CCK-O3	Suhee Hong	Two types of TNF α in fish: cloning, expression and functional characterization of the third TNF α in rainbow trout		
		16:30	CCK-O4	H. Suetake	A chemokine expressed in the secondary lymphoid organs of fugu (<i>Takifugu rubripes</i>)		
		16:50	CCK-O5	H. Korenaga	Identification, characterization and expression analysis of IL-17 receptors, Act1 and TRAF6 genes in Japanese pufferfish (<i>Takifugu rubripes</i>)		
		17:10	CCK-O6	Y. Ding	The two interferons of Large yellow croaker		
		17:30	CCK-O7	Chris Secombes	MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF IL12 FAMILY MEMBERS IN SALMONIDS		H. Suetake C. Tafalla
	Tue	10:30	CCK-O8	M. Chadzinska	Phylogenetic and functional diversity of CXC chemokines and their receptors in cyprinids		
		10:50	CCK-O9	C. Tafalla	Rainbow trout CK1 signals through CCR6 in B lymphocytes and is involved in the recruitment of IgT+ cells to mucosal sites		
		11:10	CCK-O10	C. Tafalla	Identification of a novel CCR7 gene in rainbow trout with differential regulation in the context of mucosal or systemic infection		
	Poster			CCK-P1	Linyi Hu	Characterization of TNF and TNF receptor superfamily in amphioxus	
				CCK-P2	T. Zheng	The interferon regulatory factor (IRF) family in amphioxus	
			CCK-P3	Ming-Wei Lu	The Functional Characterization of Zebrafish Type I Interferon (zIFN) in Nervous Necrosis Virus		
			CCK-P4	G. Biswas	A Multiplex RT-PCR Assay for Rapid and Sensitive Detection of Cytokines in Pufferfish		
			CCK-P5	T. Iwase	Earthworm extract possessed anti-inflammatory property through the down-regulation of IL-8 transcription		
			CCK-P6	O. Kurata	N-Terminal Region Responsible for Chemotactic Activity of Flounder IL-8		
			CCK-P7	M. Kaneda	Teleost IL-6 promotes antibody production through STAT3 signaling via IL-6R and gp130		
			CCK-P8	Jui-Ling Tsai	Molecular cloning and characterization of orange-spotted grouper (<i>Epinephelus coioides</i>) IL-12 Gene Knockdown and mRNA Variants of Astakine, Ancient Cytokine, in Kuruma Shrimp <i>Marsupenaeus japonicus</i>		
			CCK-P9	M. Inada			
			CCK-P10	Chris Secombes	The interferon (IFN) system of salmonids is more complex than previously realised: Characterisation of the IFN locus in rainbow trout reveals two novel IFN subgroups		
			CCK-P11	Zhengliang Ouyang	Molecular Cloning, Characterization and Expression Analysis of STING from Orange-spotted Grouper, <i>Epinephelus coioides</i>		
			CCK-P12	Chris Secombes	CLONING AND EXPRESSION ANALYSIS OF A THIRD IL1 β GENE IN SALMONIDS: TWO TYPES OF IL1 β GENES EXIST IN TELEOST FISH		

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Ig and other antigen receptors (IGR)	Tue	10:30	IGR-O1	Y. Sutoh	VLRC defines a population of lamprey lymphocytes distinct from that expressing VLRA or VLRB	I. Hordvik Y-F. Zhao	
		10:50	IGR-O2	S. S. Higgie	The origin and evolution of the immunoglobulin domain		
		11:10	IGR-O3	H. Cortes	Understanding Channel Catfish (<i>Ictalurus punctatus</i>) leukocyte immune-type receptors (IpLITRs)		
		11:30	IGR-O4	B.C. Montgomery	Channel catfish leukocyte immune-type receptors mediate inhibition of cellular cytotoxicity by SHP-1-dependent and -independent mechanisms.		
		11:50	IGR-O5	J. Oriol Sunyer	Dominant role of IgT and IgT+ B cells in Rainbow Trout (<i>Oncorhynchus mykiss</i>) cutaneous immunity		
		12:10	IGR-O6	Katherine A. Rego	Characterization of a new immunoglobulin light chain isotype, Ig lambda, in rainbow trout, <i>Oncorhynchus mykiss</i>		
		13:30	IGR-O7	Ivar Hordvik	Characterization of IgM sub-variants in salmonid fish		J. O. Sunyer N. R. Saha
		13:50	IGR-O8	I. Salinas	Analysis of immunoglobulin heavy chain genes and proteins in the African lungfish <i>Protopterus dolloi</i>		
		14:10	IGR-O9	Nil R. Saha	Genomic survey of the immune repertoire in the living coelacanth		
		14:30	IGR-O10	Gang Cheng	Extensive diversification of IgH subclass encoding genes and IgM to IgM class switching in <i>Crocodylia</i>		
		14:50	IGR-O11	S. D. Fugmann	Separation of mutational and transcriptional enhancers in the <i>Gallus gallus</i> IGL gene		
		15:10	IGR-O12	P. Boudinot	Teleost fish mount complex clonal IgM and IgT responses in spleen upon systemic viral infection		
	Poster			IGR-P1	M.-S. Wu	Expression patterns of the immunoglobulin light chain genes in <i>Epinephelus coioides</i>	
				IGR-P2	S. Suda	Sequencing immunoglobulin variable regions of new antigen receptor genes in the banded houndshark, <i>Triakis scyllium</i>	
				IGR-P3	Young-Kyu Kim	Characterization of Monoclonal Antibody Against Immunoglobulin Kappa Light Chain in Olive Flounder, <i>Paralichthys olivaceus</i>	
				IGR-P4	F. Ramirez-Gomez	Understanding secretory IgD in Rainbow trout: Antigen-specific plasma cell distribution and expression in body secretions	
				IGR-P5	Priti Kataria	The structure of rainbow trout (<i>Oncorhynchus mykiss</i>) IgM influences antibody-mediated phagocytosis	
				IGR-P6	Tao Wang	Evidence of IgY subclass diversification in the reptilian snakes: evolutionary implications 1, 2	
				IGR-P7	Priti Kataria	Competitive displacement of antibody secreting cells in rainbow trout	

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Innate cellular immunity (INC)	Wed	11:15	INC-O1	E. Koppang	A role of melanin production in melanomacrophages?	V. J. Smith D. Barreda
		11:35	INC-O3	Tomáš Korytář	Functional and Molecular Aspects of the Immune Defence in Peritoneal Cavity of Rainbow Trout (<i>Oncorhynchus mykiss</i>)	
	Thu	10:30	INC-O4	L. Pijanowski	Neutrophil extracellular traps in carp	
		10:50	INC-O7	Valerie J. Smith	Extracellular chromatin traps are an ancient eukaryotic cellular defence strategy	
		11:10	INC-O6	Elisabeth A. Dyrnda	Revisiting the cell: Differences in haemocyte death patterns associated with immunity in an invertebrate model	
		11:30	INC-O2	M. A. Kepka	Melatonin reduces ROS-dependent apoptosis of carp phagocytes	
		11:50	INC-O5	T. Nagasawa	Phagocytosis and bactericidal abilities of teleost thrombocytes.	
		12:10	INC-O3	Daniel R. Barreda	Evolving Roles of Phagocytes for the Control of Inflammation	
	Poster	INC-P1	Julie Ghosh	The axial organ: the source of coelomocytes in the purple sea urchin?		
		INC-P2	H. Miyazaki	Fatty acid binding protein 7 regulates the functions of murine macrophages.		
		INC-P3	Y. Sugie	Carp thrombopoietin in combination with kit ligand induces the formation of colonies derived from unipotent progenitors for thrombocytes and bipotent progenitors for thrombocytes and erythrocytes		
INC-P4		M. Tomana	Flow cytometric characterization of Japanese bullhead and whale shark peripheral blood leukocytes			
INC-P5		Yong-An Zhang	The Neural Cell Adhesion Molecules in Mandarin Fish			

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Invertebrate hemocytes (IVH)	Thu	13:30	IVH-O1	V. Skala	Activity of <i>Radix lagotis</i> (Lymnaeidae) hemocytes: influence of infection by the bird schistosome <i>Trichobilharzia regenti</i>	M. Bilej C. Paillard
		13:50	IVH-O2	B. D. Parsons	Requirement of Pvr Ligands in <i>Drosophila</i> Embryonic Macrophage Survival and Migration	
		14:10	IVH-O3	P. Prochazkova	The regulation of cellular iron homeostasis in <i>Eisenia andrei</i> earthworms	
		14:30	IVH-O4	C. Noonin	CRAYFISH HEMATOPOIETIC TISSUE AS A MODEL FOR STEM CELL	
		14:50	IVH-O5	Jiann-Horng Leu	Identification of hematopoiesis-related genes in <i>Litopenaeus vannamei</i>	
		15:40	IVH-O6	Christine Paillard	Cellular and molecular analysis of <i>Ruditapes philippinarum</i> hemocytes reveals cytoskeleton disruption after <i>Vibrio tapetis</i> challenge	
	Poster	IVH-P1	A. Accorsi	Time-course analysis of hemocyte populations in the freshwater snail <i>Pomacea canaliculata</i> (Gastropoda, Ampullariidae)		
		IVH-P2	J. Y. Hwang	Flow cytometry analysis hemocytes of immune response of invertebrate due to infections		
		IVH-P3	M. Kondo	Morphological Diversity of Crustacean Hemocytes		
		IVH-P4	D. Sekine	Monoclonal antibodies recognizing hemocytes and cells in gill tissue of deep-sea mussel, <i>Bathymodiolus japonicus</i>		
		IVH-P5	A. Tame	Comparative morphology of hemocytes in deep-sea symbiotic bivalves, three <i>Bathymodiolus</i> mussels and two <i>Calyptogena</i> clams		
		IVH-P6	Chadanat Noonin	Crustacean hematopoietic factor - a regulator of hemocyte homeostasis		
		IVH-P7	A. Watthanasurorot	Hemocyte homeostasis the role of astakines		
		IVH-P8	Valerie J. Smith	Characterisation of prohaemocytes from crab, <i>Carcinus maenas</i> , and their survival in vitro		

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Invertebrate immune response (INV)	Thu	16:00	INV-O1	Christine Paillard	Nacrezation process, an immune defense system efficient against vibrios in manila clams?	K. Söderhäll A. Tassanakajon
		16:20	INV-O2	C. Le Bris	Demonstration of the increase of laccase-like activity in immune defense of clams infected by pathogens	
		16:40	INV-O3	K. Somboonwivat	Antibacterial and Antiviral Activity of Penaeus monodon Antilipopolysaccharide Factor Isoform 3 (ALFPm3)	
		17:00	INV-O4	Lijun Feng	Identification and Characterization of an Amphioxus Matrix Metalloproteinase Homolog BbMMPL2 Responding to Bacteria Challenge	
		17:20	INV-O5	R. Bettencourt	The emergence of the mussel Bathymodiolus azoricus as a bona fide model to study innate immunity in deep-sea vent animals	
	Fri	10:30	INV-O6	Martin Bilej	Microbial environment determines the innate immunity in earthworms	C. Bigger E. Dyrzynda
		10:50	INV-O7	Han-Ching Wang	The diversified IgSF molecule, Dscam, and highly specific innate immune responses in shrimp	
		11:10	INV-O8	Kenneth Söderhäll	Dscam (Down syndrome adhesion molecule); structure and function in a crustacean.	
		11:30	INV-O9	Tze Hann Ng	Investigating Crustacean Immune Response via Putative Antigen-Specific Receptor, Dscam	
		11:50	INV-O10	Patrick C. Hanington	FREP3 is an important factor in snail resistance to trematode infection	
		12:10	INV-O11	Judith E. Humphries	Gene regulation of immune responses in Biomphalaria glabrata	
		13:30	INV-O12	C. H. Bigger	Adaptive Immunity in a Coral: a Question of Memory?	J-C. Chen S. Kurata
		13:50	INV-O13	S. Guntermann	Functional Analysis of the Fly Caspase Dredd in the IMD Innate Immune Signaling Pathway.	
		14:10	INV-O14	T. Shibata	Transglutaminase-catalyzed Relish Crosslinking Suppresses Innate Immune Signaling in the Drosophila Gut	
		14:30	INV-O15	L. Zhang	Evolutionary and Regulation Dynamics of Immune-Related Genes and Pathways in the Pacific Oyster	J-M. Reichhart T. Itami
		15:20	INV-O16	Edan Foley	The Drosophila Pvr Pathway is an Intrinsic Autocrine Regulator of Intestinal Homeostasis.	
		15:40	INV-O17	C.J. Coates	Investigating Amebocyte Phagocytosis and Immune Defence in Limulus polyphemus	
		16:00	INV-O18	Moon-Soo Heo	Immunomodulation of green marine alga (Ulva lactuca) against Aeromonas hydrophila in Macrobrachium nobilii	
Poster			INV-P1	J. Peng	Novel TIR adaptors acts as a negative regulator in inflammatory signaling of amphioxus	
		INV-P2	X. Dong	Ubiquitination regulatory of immune signaling pathway in amphioxus		
		INV-P3	M. Tsau	Cloning and analysis of autophagy-related protein 8 (ATG8) in shrimp Litopenaeus vannamei		
		INV-P4	F.Y. Chen	Gene cloning gene protein expression profiling and antioxidant activity of some immune associated parameters in Scylla paramamosain with LPS challenge		
		INV-P5	K Qiao	Gene cloning and expression analysis of a sigma class glutathione S transferase and molluscan caspase in haemocytes of variously colored abalone upon bacterial challenge		
		INV-P6	S.L. Hsieh	Effects of Dietary Gynura bicolor Extract on Immune Responses in White Shrimp, Litopenaeus vannamei		
		INV-P7	T. Itami	Molecular Cloning and Analysis of Toll Interacting Protein Gene, MjTollip, in Kuruma Shrimp Marsupenaeus japonicus		
		INV-P8	P. Jiravanichpaisal	Properties of an Interleukin-1 Receptor-Associated Kinase-4 (IRAK-4) of Black Tiger Shrimp (Penaeus monodon)		
		INV-P9	Jiann-Chu Chen	Modulation of the innate immune response in white shrimp following long-term low-salinity exposure		
		INV-P10	M. Inada	Molecular Cloning and Expression Analyses of Free Radical Generation Enzymes in Kuruma Shrimp Marsupenaeus japonicus		
		INV-P11	Tohru Mekata	Changes in transcription profiles of immune related genes after silencing of Toll receptors in shrimp		
		INV-P12	Taku Hibino	Slow transport of foreign objects to the distal end of the sea urchin larval arms		
		INV-P13	Chadanat Noonin	Identification and functional study of thymosins in Pacifastacus leniusculus		
		INV-P14	Francisco Ramirez-Gomez	Highlights from cellular and molecular studies of the immune system of a Caribbean Sea cucumber		

		INV-P15	Hiroki Inoue	Characterizations of Novel Cadherins and Intercellular Recognition Molecules Related to Parasite-Host Compatible Cell Interactions.
		INV-P16	C. J. Bayne	Resistance to <i>Schistosoma mansoni</i> is correlated with the numbers of pseudopod-producing hemocytes in <i>Biomphalaria glabrata</i>
		INV-P17	S. Dharaneedharan	<i>Magnifera indica</i> kernel feed on immune response of <i>Penaeus indicus</i> against white spot syndrome virus (WSSV)
		INV-P18	T. Itami	Interaction between WSSV infection and Apoptosis-, JAK/STAT-signaling- pathway- and RNAi-related Genes in Kuruma Shrimp, <i>Marsupenaeus japonicus</i>
		INV-P19	T. Itami	Identification and Expression Analysis of Cytochrome c in Kuruma Shrimp, <i>Marsupenaeus japonicus</i>
		INV-P20	Xin Tao	<i>Amphioxus</i> IKK complex involved in TLR modulated NF-kappaB and IRF activation
		INV-P21	H. Kanoh	Characterization of a downstream component of <i>Drosophila</i> receptor guanylate cyclase activating innate immune response
		INV-P22	Yong-Chin Lin	The Antioxidant Role of Superoxide Dismutase in <i>Penaeid</i> Shrimp

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Lectin (LEC)	Tue	14:30	LEC-O1	P. Angthong	Characterization of the Tachylectin-type Lectin in the Black Tiger Shrimp, <i>Penaeus monodon</i>	Y. Suzuki N. Wakamiya
		14:50	LEC-O2	Laura F. Grice	Seeking diversity: Genomic characterisation of the aggregation factor genes of the demosponge <i>Amphimedon queenslandica</i>	
		15:10	LEC-O3	Lijun Feng	Identification of an amphioxus intelectin homologue that preferably agglutinates gram positive over negative bacteria likely due to different binding capacity to LPS and PGN	
		16:00	LEC-O4	Maria Forlenza	Analysis of Highly Expressed Short Immune-Related Soluble C-Type Lectin (SISC) in Common Carp (<i>Cyprinus carpio</i>)	
		16:20	LEC-O5	A.M. Argayosa	Warm-water Fish Lectins and Their Relevance to Innate Immunity and Aquaculture Applications	
	Poster		LEC-P1	Y. Ikazaki	Possible roles of <i>Xenopus laevis</i> XCGL family lectins in innate immunity	
			LEC-P2	N. Wakamiya	The Biological Functions of the Novel Collectins CL-L1, CL-K1, and CL-P1	
			LEC-P3	Y. Endo	Orthology between human and mouse ficolins, and roles of mouse ficolins A and B in host defense	
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Pattern recognition molecules (PRM)	Tue	10:30	PRM-O1	S.V. Nair	Variations to the sea urchin 185/333 genes during gametogenesis and ontogeny	C. L. Smith S. V. Nair
		10:50	PRM-O2	M. O. Roth	Somatic gene diversification in the sea urchin, <i>Heliocidaris erythrogramma</i>	
		11:10	PRM-O3	C. M. Lun	A recombinant Sp185/333 immune protein from the California purple sea urchin shows specific and non-reversible binding to certain microbes	T. P. Yoshino A-L. Xu
		11:30	PRM-O4	T. P. Yoshino	Innate immunity in snails <i>Biomphalaria glabrata</i> to schistosome infections: early recognition based on lectin-glycan interactions	
		11:50	PRM-O5	Nil R. Saha	Extreme Functional Evolutionary Divergence of an Immune Receptor in a Basal Vertebrate	
		12:10	PRM-O6	Danilo Pietretti	POSSIBLE ROLE IN RECOGNITION OF PROTOZOAN PARASITES: CHARACTERIZATION OF TLR20 IN COMMON CARP (<i>CYPRINUS CARPIO</i>)	
		13:30	PRM-O7	Pinwen P. Chiou	Regulation of Grouper Toll-like Receptor 9 Signaling by Alternative RNA Splicing	
		13:50	PRM-O8	C. L. Yao	Molecular characterizations of two types of TLR5 in large yellow croaker, <i>Larimichthys crocea</i>	
		14:10	PRM-O9	Inge R. Fink	Studies into the Formation of Heterodimers of Toll-Like Receptor-1 and -2 in Common Carp	
	Poster		PRM-P1	Ming-Ching Lin	The shrimp anti-lipopolysaccharide factor (SALF) inhibits the expression of proinflammatory cytokines by <i>Trichomonas vaginalis</i> -infected HeLa cells.	
			PRM-P2	M.X. Chang	Identification of peptidoglycan recognition protein 6 and its splicing isoforms that inhibit intracellular bacterial proliferation in grass carp CIK cells	
			PRM-P3	H. Chou	Does opsonization of bacteria by a recombinant Sp185/333 protein from the California purple sea urchin augment phagocytosis?	
			PRM-P4	Lauren S. Sherman	Diversity of immune response proteins: nickel-isolated Sp185/333 proteins from the purple sea urchin	
			PRM-P5	T. Aoki	Evolutional Conservation of Primordial Functions and Transcriptional Control of LGP2 Gene in Japanese Flounder, <i>Paralichthys olivaceus</i>	
			PRM-P6	Danilo Pietretti	CHARACTERIZATION OF TOLL-LIKE RECEPTOR 4 IN COMMON CARP (<i>CYPRINUS CARPIO</i>)	
			PRM-P7	Danilo Pietretti	Identification of several CRP-like sequences in common carp increases the complexity of the pentraxin system	
			PRM-P8	Seong Don Hwang	Molecular identification and expression analysis of two distinct BPI/LBPs from rock bream, <i>Oplegnathus fasciatus</i>	
			PRM-P9	R. Harikrishnan	Identification and molecular characterization and mRNA transcription in tissues of the apolipoprotein E in <i>Epinephelus bruneus</i>	
			PRM-P10	SeongDon Hwang	Molecular cloning and functional characterization of Toll-like receptor 3 in Japanese flounder, <i>Paralichthys olivaceus</i>	

Session Name and Date	Day	Time	ID No.	Presenter	Title	Chairpersons
T-cell, MHC, and Ag-presentation (TCM)	Fri	11:10	TCM-O1	N. T. Fujito	Long-term Transspecies Dimorphism of the PSMB8 Gene in the Actinopterygian MHC Region	T. Nakanishi S. Kasahara
		11:30	TCM-O2	C. Huang	Recurrent Revival of Dimorphism of the PSMB8 Gene During Tetrapod Evolution	
		11:50	TCM-O3	H. Bannai	Evolution of Teleost MHC Class II Genes Revealed by Comprehensive Analysis of Medaka	
		12:10	TCM-O4	Uwe Fischer	Phenotypic differences of mucosal and non-mucosal CD8alpha positive T-cells in the teleost <i>Oncorhynchus mykiss</i>	
		13:30	TCM-O5	M.F. Criscitiello	Somatic hypermutation for primary alpha/beta T cell repertoire generation in shark	J. O. Sunyer Y. Ota
		13:50	TCM-O6	G. Kato	T cell marker CD4 and CD8 gene in Japanese flounder, <i>Paralichthys olivaceus</i>	
		14:10	TCM-O7	G. Scapigliati	T cells of the teleost sea bass <i>Dicentrarchus labrax</i> (L.)	
		14:30	TCM-O8	Huong Dang Thi	A profile of peripheral and mucosal T-cell subpopulations in rainbow trout (<i>Oncorhynchus mykiss</i>)	
		15:20	TCM-O9	T. Yamaguchi	Clonal culture of carp Th2-like cells whose immune status is hallmarked by IL-4/13B gene expression	G. Scapigliati M. F. Criscitiello
		15:40	TCM-O10	Yuko Ota	Evolution of the B7 family coevolution and the B7s historical relationship with the MHC	
		16:00	TCM-O11	David Parra	Phagocytic B cells discovered in mammals: Murine B-1 B cells have phagocytic and microbicidal capacities and present phagocytosed antigen to CD4+ T cells	
		16:20	TCM-O12	Fumio Takizawa	First identification of regulatory B cell subsets expressing IL-10 in teleost fish	
	Poster		TCM-P1	S. Yoon	CHARACTERIZING THE ROLE OF CD4+ CELLS WITHIN THE ZEBRAFISH (<i>DANIO RERIO</i>) IMMUNE RESPONSE	
			TCM-P2	P. Johansson	Characterising putative dendritic cell markers in rainbow trout (<i>Oncorhynchus mykiss</i>)	
			TCM-P3	Y. Yan	Functional studies on an immune-related gene of MyD88 in orange-spotted grouper, <i>Epinephelus coioides</i>	
			TCM-P4	M. I. Nonaka	Different Evolutionary Patterns of Three Alpha Domains of the MHC Class IA Genes	
			TCM-P5	R. Nagamine	Characterization and expression analysis of the Japanese pufferfish <i>Takifugu rubripes</i> homologue of the mammalian Th-POK	
			TCM-P6	K. Araki	Characterization and expression analysis of CD4 and CD8 genes in yellowtail, <i>Seriola quinqueradiata</i>	
			TCM-P7	J. B. Jørgensen	CD40L An important Costimulatory molecule involved in the maturation of Antigen Presenting Cells in Atlantic salmon.	
			TCM-P8	Chun Xia	Narrow Groove of MHC Class I Molecule BF2*0401 Plus Peptide Transporter Restriction can Explain Disease Susceptibility of B4 Chickens	
			TCM-P9	Fumio Takizawa	Identification and transcription analysis of Eomesodemin-a and -b in rainbow trout	

Session Name and Date	Day	Time	ID No.	Presenter	Title	Chairpersons
Vaccine and adjuvant (VAC)	Wed	10:15	VAC-O1	H. L. Thim	INCREASED PROTECTIVE IMMUNE RESPONSES WHEN COMBINING TLR-AGONISTS IN A WHOLE-VIRUS ANTIGEN VACCINE AGAINST SALMONID ALPHAVIRUS	J. Jørgensen G. Wiegertjes
		10:35	VAC-O2	K. Villumsen	Protective effects of vaccine-induced specific antibodies against <i>Aeromonas salmonicida</i> subsp. <i>salmonicida</i> in rainbow trout	
		10:55	VAC-O3	L. Neumann	Oral and anal vaccination against enteric red mouth disease induces full protection against yersiniosis.	
		11:15	VAC-O4	M. K. Raida	Immersion vaccination against <i>Yersinia ruckeri</i> O1, biotype 2 confers cross protection against <i>Y. ruckeri</i> O1 biotype 1.	
		11:35	VAC-O5	L. G. Jørgensen	Improved ERM vaccination efficacy using combined vaccine administration methods	
		11:55	VAC-O6	Dimitar Iliev	CpG activation of distinct MHCII+ cell types in Atlantic salmon (<i>Salmo salar</i>)	
	Poster		VAC-P1	Dong-Hwi Kim	Effects of chitin and chitosan particles on innate immune system in <i>Epinephelus bruneus</i>	
			VAC-P2	M.-G. Kwon	The efficacy and safety of oil-adjuvanted combination vaccine containing <i>Edwardsiella tarda</i> , <i>Streptococcus iniae</i> and <i>Streptococcus parauberis</i> in olive flounder <i>Paralichthys olivaceus</i>	
			VAC-P3	A. Taechavasonyoo	The immuno-adjuvant effect of interleukin-1 beta in Japanese flounder (<i>Paralichthys olivaceus</i>)	
			VAC-P4	S. Chen	Vaccine efficacy of recombinant proteins from <i>Nocardia seriolae</i> against nocardiosis in large mouth bass, <i>Micropterus salmoides</i>	
			VAC-P5	Bo-Wei Chi	Development of oral delivery system for aquaculture viral disease using <i>Listeria monocytogenes</i>	

Session Name and Date	Day	Time	ID No.	Presenter	Title	Chairpersons
Vertebrate adaptive immune response (ADP)	Thu	10:30	ADP-O1	Makoto Inami	Intestinal immunity in cod	T. Maruyama U. Fischer
		10:50	ADP-O2	M. K. Raida	Association between increased antibody level and protection in <i>Yersinia ruckeri</i> bacterin immersion vaccinated rainbow trout.	
		11:10	ADP-O3	M. Yamasaki	Cell-mediated and humoral immune response to <i>Edwardsiella tarda</i> in ginbuna crucian carp, <i>Carassius auratus langsdorfii</i>	
		11:30	ADP-O4	K. Araki	Protection of ginbuna crucian carp (<i>Carassius auratus langsdorfii</i>) against <i>Edwardsiella tarda</i> infection using adoptive transfer of cytotoxic T lymphocytes	
		11:50	ADP-O5	K. Ohishi	Three dimensional models of Signaling Lymphocyte Activation Molecules (SLAM), a receptor for morbillivirus in carnivores	J. Stafford M. Forlenza
		12:10	ADP-O6	M. Edwards	Immune protection of developing marsupial pouch young: what does transcriptome sequencing tell us?	
		13:30	ADP-O7	L. Jørgensen	Immunity against the parasite <i>Ichthyophthirius multifiliis</i> in rainbow trout	
		13:50	ADP-O8	J. Scott Fites	Deadly chytrid fungus can paralyze amphibian lymphocyte responses	
		14:10	ADP-O9	T. Odaka	The Plasmablast-like Leukocyte in the Kidney of Fugu (<i>Takifugu rubripes</i>)	
	Poster	ADP-P1	Seung-Hyun Hong	Dietary <i>Rubus coreanus</i> on immune system in <i>Epinephelus bruneus</i> against <i>Vibrio alginolyticus</i>		
		ADP-P2	Ronggai Li	B-cell markers and cytokines involved in B-cell growth and differentiation from cartilaginous fish		
		ADP-P3	S. Boltaña	Immune response in sea bream (<i>Sparus aurata</i>) after treatment with LPS of <i>Aeromonas salmonicida</i> and <i>Listonella anguillarum</i>		
		ADP-P4	B. Gorgoglione	MOLECULAR CHARACTERIZATION OF IMMUNE RESPONSES ELICITED DURING PKD INFECTION IN BROWN TROUT vs RAINBOW TROUT		
		ADP-P5	Chun-Hsin Wu	Computational Analysis of Immune Foods and Diets Based on Nutritional Similarity Measurement		
		ADP-P7	Haruka Tsukamoto	Characterization of culture supernatant of <i>Streptococcus parauberis</i> : hemolytic factor and leucocyte-stimulation in Japanese flounder		
		ADP-P8	J. W. Hodgkinson	Analysis of the immune interface of <i>Mycobacterium marinum</i> infections in the goldfish (<i>Carassius auratus</i> L.)		
		ADP-P9	M. Zhang	Depletion of conventional mature B cells and compromised specific antibody response in bovine Ig mu heavy chain transgenic mice		

Session Name and Date	Day	Time	ID No.	Presenter	Title	Chairpersons	
Vertebrate innate/homeostatic response (VIH)	Thu	14:30	VIH-O1	S. MacKenzie	Behavioural fever is a synergic signal amplifying the innate immune response	T. Moritomo J. Hikima	
		14:50	VIH-O2	A. Frøyse	Inflammation - a co- factor in salmonid coronary disease?		
		15:40	VIH-O3	Whitney M. Gammill	Innate immune defenses in amphibian skin against the fungal pathogen <i>Batrachochytrium dendrobatidis</i>		
		16:00	VIH-O4	Dominika A. Przybylska	Beta-glucan enriched bath directly stimulates the wound healing process in common carp (<i>Cyprinus carpio</i> L.)		
		16:20	VIH-O5	T. Wulff	Immunological aspects of tissue regeneration in rainbow trout muscle - A proteomics and bioinformatics approach		
		16:40	VIH-O6	J.G.Schmidt	Innate immune responses to experimentally inflicted wounds in common carp (<i>Cyprinus carpio</i> L.) larvae and juveniles		T-S. Jung E. O. Koppang
		17:00	VIH-O7	N.I. Vera-Jiménez	Carp head-kidney leukocytes display different oxygen radical production patterns after DAMP and PAMP stimulation.		
		17:20	VIH-O8	N.I. Vera-Jiménez	Modulation of fish fibroblast proliferation with B-glucan and hydrogen peroxide during scratch-wound healing in vitro.		
	Fri	10:30	VIH-O9	J. Hikima	Expression of Type-I Interferon Gene Controlled by IRF3/7 Mediated through TBK1 in Japanese Flounder		
		10:50	VIH-O10	A. Skjesol	Suppressors of Cytokine Signaling (SOCS) in Atlantic Salmon		
Poster	Poster	VIH-P1	R. Belmonte	The Immune Response of Atlantic Salmon to <i>Saprolegnia</i>			
		VIH-P2	J. Wei	Cloning, characterization, and expression analysis of a thioredoxin from orange-spotted grouper (<i>Epinephelus coioides</i>)			
		VIH-P3	S. Tasumi	Candidate key molecule(s) determining host specificity of parasite on fugu, <i>Takifugu rubripes</i>			
		VIH-P5	J. Kang	Skewed segregation of a microsatellite marker linked with homozygous lethality after metamorphose of olive flounder			
		VIH-P6	Seong Don Hwang	Molecular characterization, expression, and functional analysis of two thioredoxins in the black rockfish (<i>Sebastes schlegelii</i>)			
		VIH-P7	Sònia Rey Planellas	Emotional fever in the zebrafish (<i>Danio rerio</i>) during intra-peritoneal injection procedures.			
		VIH-P8	Josep V. Planas	Modulation of the transcriptomic effects of lipopolysaccharide in skeletal muscle by swimming in zebrafish (<i>Danio rerio</i>)			
		VIH-P9	A. Callol	European eel (<i>Anguilla anguilla</i>) 454 immunotranscriptome sequencing.			