

KOFFST 2022

Korean Federation of Fisheries Science
and Technology Societies

KOFFST

International Conference 2022

Fisheries Science in Pandemic Era

November 3~4, 2022

BEXCO, Busan, Rep. of Korea

주최



한국수산과학총연합회
Korean Federation of Fisheries Science and Technology Societies

주관



한국수산과학회
The Korean Society of Fisheries and Aquatic Science



한국어류학회
The Ichthyological Society of Korea



한국어병학회
The Korean Society of Fish Pathology



한국수산해양기술학회
The Korean Society of Fisheries and Ocean Technology



(사)한국패류학회
The Malacological Society of Korea

후원



부산광역시
BUSAN METROPOLITAN CITY



KC ST
한국해양기술단체총연합회



금호마린테크|주|



삼신어구



내일신문

각 학회별 일정표

November 3th, 2022 (Thursday)

(1) 한국수산과학회(KOSFAS) #211~#213 & #311~#313

시간 Time	내용 및 사회자/좌장 Program & Chair			
	양식·생물공학 (211호~213호) Aquaculture	자원·해양·환경 (311호) Fisheries Resources · Ocean ·Environment	자원·해양·환경 (312호) Fisheries Resources · Ocean · Environment	수산이용가공 (313호) Fisheries Processing/Uses
13:00-14:00	한국양식기술 워크숍2022 Korean Aquaculture Workshop 2022	<수산기자재 워크숍> 수산기자재 현재와 발전 방안 Current status of fishery equipment and development plan 좌장: 이경훈 (전남대학교) Kyounghoon Lee	Effects of Ecosystem Change on the Habitat and Distribution of Fishery Resources and Diagnosis 좌장: 김희용 (국립수산과학원) Heeyong Kim	Part I 구두발표 Oral presentation part I 좌장: 김동현 (경북대학교) Dong Hyun Kim
14:00-18:00			Part I 구두발표 Oral presentation part I 좌장: 김창신 (국립수산과학원) Chang Sin Kim	Part II 구두발표 Oral presentation part II 좌장: 심길보 (부경대학교) Kil Bo Shim
		<수산자원 토론회> 우리나라 수산자원관리의 과거, 현재와 미래 Korean Fisheries Management Past, Present and Future 좌장: 최정화 (국립수산과학원) Jung Hwa Choi	Part II 구두발표 Oral presentation part II 좌장: 백근욱 (경상국립대학교) Geun-Wook Baek	Part III 구두발표 Oral presentation part III 좌장: 엄성환 (동의대학교) Sung-Hwan Eon
18:00-19:00				

November 4th, 2022 (Friday)

(1) 한국수산과학회(KOSFAS) #311~#313 & #214

시간 Time	내용 및 사회자/좌장 Program & Chair		
13:00-14:00	평의회 및 총회(214호) Annual & council meeting 심길보(부경대학교) Kil Bo Shim		
14:00-18:00	양식·생물공학(311호) Aquaculture	자원·해양·환경(312호) Fisheries Resources · Ocean Environment	수산이용가공(313호) Fisheries Processing/Uses
	Part I 구두발표 Oral presentation part I 좌장: 이봉주 (공주대학교) Bong-Joo Lee	초청특강 Invited Speaker 좌장: 최정화 (국립수산과학원) Jung Hwa Choi	신진과학자 Young scientist for future 좌장: 심길보 (부경대학교) Kil Bo Shim
		Seaweed ecophysiological studies in the climate change	
	Part II 구두발표 Oral presentation part II 좌장: 이승형 (부경대학교) Seung Hyung Lee	좌장: 최한길 (원광대학교) Han Gil Choi	New Trends in Fisheries Utilization 좌장: 유대웅 (창원대학교) Daeung Yu
		Ecological research of fishery resources: A stable isotope approach	
	Part III 구두발표 Oral presentation part III 좌장: 허성표 (제주대학교) Sung-Pyo Hur	좌장: 박현제 (강릉원주대학교) Hyun Je Park Biological and ecological studies for management of the Pacific anchovy resources 좌장: 문성용 (국립수산과학원) Seong Yong Moon	Distribution quality improvement technology to improve discoloration and odor problems of fish meat 좌장: 이은우 (동의대학교) Eun-Woo Lee

PD-42

Characterization and immune response analysis of NF- κ B-inhibitor-interacting Ras-like 2 orthologous from *Planiliza haematocheilus*

H.M.S.M. Wijerathna¹, Kishanthini Nadarajapillai¹, B.P.M.V. Jayamali¹, Sumi Jung^{1,2} and Jehee Lee^{1,2}

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PD-43

Zebrafish: Gene expression pattern, mortality, and morphology of myd88 KO under VHSV infection

K.P. Madushani^{1*}, K.A.S.N Shanaka¹, E.M.T Tharanga¹, Sumi Jung², Myoung-Jin Kim³ and Jehee Lee²

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PD-44

Zebrafish: VHSV copy number, mortality, and morphology under VHSV infection in viperin knockout model

K.A.S.N Shanaka^{1*}, K.P Madushani¹, B.P.M.V Jayamali¹, Sumi Jung², Myoung-Jin Kim³ and Jehee Lee²

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PD-42

Characterization and immune response analysis of NF- κ B-inhibitor-interacting
Ras-like 2 orthologous from *Planiliza haematocheilus*

H.M.S.M.Wijerathna¹, Kishanthini Nadarajapillai¹, B.P.M.V.Jayamali¹, Sumi Jung^{1,2} and Jehee Lee^{1,2}

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The NF- κ B-inhibitor-interacting Ras-like 2 (NKIRAS2) protein is found to be a regulator of the transcription factor NF- κ B and predicted that it may be involved in enabling of GTPase activating protein binding activity, which play a major role in innate immune system and regulation of cell growth. The present study was conducted to investigate the molecular characteristics and immune response of NKIRAS2 orthologous from Redlip mullet (*Planiliza haematocheilus*), *Phnkiras2*. *Phnkiras2* consists of 193 amino acids, with a molecular weight of 21.906 kDa and a theoretical isoelectric point of 8.95. Further, it contains Ras-like small GTPase domain in between 2-171 amino acids. Pairwise sequence analysis with orthologous of other animals shows highest identity (97.4%) and similarity (99.0%) with *Nibeal albiflora* and the Phylogenetic tree construction illustrated that the *Phnkiras2* clustered with the teleost clade. Quantitative real-time PCR revealed that *phnkiras2* highly expressed in the intestine, followed by the brain tissues of redlip mullet. Moreover, temporal changes of *phnkiras2* mRNA expression level in blood following immune stimulation of healthy fish with Poly (I:C) injection shows undulatory modulation pattern, while the LPS and *Lactococcus garvieae* injection shows time dependently increased *phnkiras2* mRNA expression level at 0, 6, 24, and 48h. Taken together, our study revealed that *Phnkiras2* may play a significant role in the immune system of redlip mullet.