



TUESDAY, April 24

PLENARY

Tuesday, April 24 09:00 - 10:40

Chair: Guillaume Drillet

- 09:00 Asian Pacific Chapter, WAS**
WELCOME
- 09:05 Ching Fong Chang**
INTRODUCTION TO THE CONFERENCE THEME "AQUACULTURE INNOVATION,
SUSTAINABILITY AND FOOD SAFETY"
- 09:35 Patrick Sorgeloos, Peter De Schryver**
NEW INSIGHTS IN MICROBIAL MANAGEMENT TO MAKE INTENSIVE
AQUACULTURE MORE SUSTAINABLE
- 10:05 OPENING CEREMONY**

FEED QUALITY AND SAFETY

Tuesday, April 24 11:20 - 12:40 Room 102

Chair: M. Rajalekshmi

INSPIRED MOLECULAR SOLUTIONS™ 

- 11:20 Felix Sugantham**
NEED OF ENZYMES IN AQUATIC FEEDS AND NUTRITION
- 11:40 Orapint Jintasataporn**, Srinoy Chumkam
ENHANCING CAROTENOIDS EFFICACY IN AQUAFEED
- 12:00 Nicola Tallarico**, Matias Jansen
LIPID OXIDATION AND ITS IMPACT ON AQUAFEED QUALITY
- 12:20 Steven Toh**, Kin Ken Chew, K.V. Chandrasekar
INTRODUCING PRECONDITIONING PROCESS IN SINKING AQUA FEED
PRODUCTION TO IMPROVE MILLING EFFICIENCY AND FEED MILL
PROFITABILITY
- 12:40 Hector Torrealba**, Jacqueline do Nascimento, Alberto J.P. Nunes
PERFORMANCE OF WHITE SHRIMP *Litopenaeus vannamei* FED WITH
NATURAL BIOSURFACTANT AS A SUBSTITUTE OF SOY LECITHIN

FISH DISEASES

Tuesday, April 24 11:20 - 17:20 Room 201d

Chairs: Ming-Wei Lu, Pham Quoc Hung, Jen-Lieh Wu, Han-You Lin

- 11:20 CANCELLED**
Qiwei Qin, Shaowen Wang, Xiaohong Huang, Hongda Wang
DISSECTING THE INFECTION MECHANISMS OF SINGAPORE IRIDOVIRUS BY
SINGLE MOLECULAR DETECTION TECHNOLOGY
- 11:40 Ming-Wei Lu**
NEW STRATEGIES FOR NERVOUS NECROSIS VIRUS RESISTANCE IN
GROUPEL INDUSTRY
- 12:00 Joan Tang Xiao Joe**, Abigail Elizur, Josephine Nocillado, Ming-Wei Lu
DEVELOPMENT OF GONAD MATURATION REAGENT BY ORAL ADMINISTRATION
- 12:20 Pinwen Chiou**, Ran-Hong Peng, Hsiang-Chieh Chuang, Randee Sheppard, Ming-Wei Lu
DEVELOPMENT OF NUCLEIC ACID IMMUNE STIMULANTS FOR
AQUACULTURED FINFISH AND SHRIMP

12:40 LUNCH

13:50 Hsing-Ni Lin, Po-Jung Chen, Hong-Jun Liao, Jiann-Ruey Hong
IDENTIFICATION OF BETANODAVIRUS INDUCES mTOR/ULK1-MEDIATED
AUTOPHAGY SIGNALING PATHWAY IN GROUPER FISH CELL

14:10 Jiann-Ruey Hong
ADVANCES IN THE MOLECULAR PATHOGENESIS OF IRIDOVIRUS:
CELL DEATH AND IMMUNE RESPONSE

14:30 James Kennard Jacob, Jennifer Paltiyon, Hezekiah Mirielle Aguinaldo
MUSHROOMS ON AQUACULTURE: WILD TYPE MUSHROOMS AGAINST FISH
PATHOGENS *Streptococcus iniae* AND *Pseudomonas aeruginosa*

14:50 Eugene Yolanda Irang-Maxion, Alvin Reyes
ASSESSMENT OF THE INHIBITORY EFFECT OF SELECTED MEDICINAL
PLANTS AGAINST *Aeromonas sobria* IN NILE TILAPIA *Oreochromis niloticus* L.

15:10 Hong Ye Ong, Ting-Yu Wang, Tzhong-Yueh Chen
MOLECULAR CLONING AND CHARACTERIZATION OF ORANGE-SPOTTED
GROUPER *Epinephelus coiodes* TYPE-II INTERFERONS

15:30 BREAK

16:00 Van Van Kim, Tham Pham Thi
STUDY ON INTESTINAL GIANT CYSTIC DISEASE OF COMMON CARP CAUSED
BY *Thelohanellus kitauei* IN VIETNAM

16:20 Young-Mao Chen, Cham-En Kuo, Hsin-Yen Ho, Chia-Jung Lee,
Tzong-Yueh Chen
GLUCOCORTICOID/GLUCOCORTICOID RECEPTORS (GRs) PATHWAY OF
GROUPER INVOLVED IN MODULATING IMMUNE RESPONSES DURING
NODAVIRUS INFECTION

16:40 Giana Bastos Gomes, K.S. Hutson, J.S. Domingos, T.L. Miller, D.R. Jerry
ENVIRONMENTAL DNA (eDNA) AS FORENSIC TECHNIQUE TO DETECT
PATHOGENS IN AQUACULTURE SYSTEMS

17:00 Jemuel Doctolero, Emmanuel Vera Cruz
MORPHO-BEHAVIORAL AND HEMATO-IMMUNOLOGICAL RESPONSES OF
VACCINATED PROACTIVE AND REACTIVE NILE TILAPIA *Oreochromis niloticus*
SUBJECTED TO HANDLING STRESS

AQUAFEEDS - ALTERNATIVE INGREDIENTS

Tuesday, April 24 11:20 - 17:20 Room 201b
Chairs: Chen-Huei Huang, Shu-Ling Hseih, Shi-Yen Shiau

- 11:20** **Guillaume Daoulas**, Orapint Jintasataporn
YNSECT PRODUCTION FOR THE AQUACULTURE SECTOR: INSECT MEAL AND GROWTH PERFORMANCES
- 11:40** **Rui Alexandre Gonçalves**, Carmen Navarro-Guillén, Neda Gilannejad, Jorge Dias, Dian Schatzmayr, Gerlinde Bichl, Tibor Czabany, Francisco Javier Moyano, Manuel Yúfera, Simon Mackenzie, Gonzalo Martinez-Rodiguez
IMPACT OF DEOXYNIVALENOL ON RAINBOW TROUT: GROWTH PERFORMANCE, DIGESTIBILITY, KEY GENE EXPRESSION REGULATION AND METABOLISATION
- 12:00** **Scott Tilton**, Derek Balk, Mark Murphy
USE OF NEXPRO, A NOVEL PROTEIN PRODUCT FROM THE U.S. ETHANOL INDUSTRY, AS A PROTEIN SOURCE IN THE DIETS OF PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 12:20** **Rui Alexandre Gonçalves**, Ursula Hofstetter, Dian Schatzmayr, Timothy Jenkins
MYCOTOXINS IN SOUTHEAST ASIAN AQUACULTURE: PLANT-BASED MEALS AND FINISHED FEEDS
- 12:40** **LUNCH**
- 13:50** **Dennis Almazan Mateo**, Janine M. Sales
BOILED *Jatropha curcas* SEED MEAL ENHANCES NILE TILAPIA *Oreochromis niloticus* FINGERLINGS GROWTH
- 14:10** **Min-Gi Kim**, Jaehyeong Shin, Bong-Joo Lee, Kyeong-Jun Lee
FISH MEAL REPLACEMENT WITH A MIXTURE OF PLANT PROTEIN SOURCE IN THE DIETS FOR OLIVE FLOUNDER *Paralichthys olivaceus*
- 14:30** **Rasina Rasid**, Nazlia Fitrah Azmy, Sharifah Rahmah Syed Muhammad, Giva Kuppusamy
THE POTENTIAL OF BLACK SOLDIER FLY *Hermetia illucens* PREPUPAE LARVAE AS AN ALTERNATIVE PROTEIN SOURCE IN DIETS OF POST LARVAE FRESHWATER PRAWN *Macrobrachium rosenbergii*
- 14:50** **Maarten Jay van Schoonhoven**, Alexandre Veille
MYCOTOXIN CHALLENGE IN AQUACULTURE FEEDS

- 15:10 Valeriano Corre Jr.**, Ritchie Declarador, Riza Jane Banicod, Jennifer Baroy, Rex Ferdinand Traifalgar
 PROTEIN-ENRICHED COPRA MEAL (PECM) AS A PARTIAL REPLACEMENT OF SOYBEAN MEAL IN THE DIET OF WHITE LEG SHRIMP *Penaeus vannamei* AND MILKFISH *Chanos chanos*
- 15:30 BREAK**
- 16:00 Jen-Hong Chu**, I-Hao Huang, Angela Chien, Shyn-Shin Sheen
 THE EFFECTS OF DIETARY FISH MEAL REPLACED WITH DIFFERENT DIETARY PROTEIN SOURCES ON THE GROWTH PERFORMANCES AND BODY COMPOSITION OF ROCKY PORGY *Oplegnathus fasciatus*
- 16:20 Yu-Cong Hong**, Shyn-Shin Sheen
 THE EFFECTS OF REPLACEMENT OF FISH MEAL PROTEIN WITH POULTRY BY-PRODUCT MEAL SUPPLEMENTED WITH FISH SILAGE AND HYDROLYZED FISH PROTEIN ON THE GROWTH PERFORMANCE OF ASIAN SEABASS *Lates calcarifer*
- 16:40 Pitchaya Chainark**
 ALTERNATIVE MICROALGAE CONCENTRATE FOR *Pseudodiaptomus annandalei* (COPEPODA:CALANOIDA) IN HIGH-DENSITY CULTURE SYSTEM DEVELOPMENT
- 17:00 Buddhi Eranga Gunathilaka**, Mikael Herault, Vincent Fournier, Kyeong-Jun Lee
 EFFECTS OF DIETARY PROTEIN HYDROLYSATE SUPPLEMENTATION ON GROWTH PERFORMANCE, FEED UTILIZATION, DIGESTIBILITY, INTESTINAL MORPHOLOGY, INNATE IMMUNITY AND DISEASE RESISTANCE OF RED SEA BREAM *Pagrus major*

SEAWEEDS AND LIVE FEED: PROCESSING AND ALGAE

Tuesday, April 24 13:50 - 15:30 Room 201a

Chairs: Pai-An Hwang, Vu Ngoc Ut

- 13:50 Yueh-Hao Hung**, Jie-Ying Hng, Jing-Yue Cheng, Si-Ying Huang, Po-Hsuan Chen, Huey-Jine Chai, Chorong-Liang Pan
 PRODUCTION OF ULVAN OLIGOSACCHARIDES BY CRUDE ENZYMES OF MARINE BACTERIA
- 14:10 Mary Joy Libatique**, Meng-Chou Lee, Han-Yang Yeh
 PHYCOERYTHRINS PURIFICATION AND CHARACTERISTIC IN *Acrochaetium* sp.

- 14:30 Alexandre Veille**
AN IMMUNE-MODULATOR ALGAL EXTRACT TO FIGHT AGAINST DISEASES;
THE EXAMPLE OF EMS IN *L. vannamei*

FOOD SAFETY: PROCESSING, INSPECTION

Tuesday, April 24 13:50 - 15:30 Room 201f

Chair: Bonnie Sun Pan

- 13:50 Jayshree Soni**
PERFORMANCE PARAMETERS FOR FOOD PROCESSING
- 14:10 Md. Aman Hassan**, Amjad Khansaheb Balange, K.A. Martin Xavier,
Subodh Gupta, Binaya Bhusan Nayak
ANTIOXIDANT PROPERTIES AND INSTRUMENTAL QUALITY ATTRIBUTES
OF SPRAY DRIED VISCERAL PROTEIN HYDROLYSATE PREPARED BY
ENZYMATIC AND CHEMICAL METHODS
- 14:30 Patwarin Tohmadlae**, Jirapa Hinsui
CHARACTERIZATION OF YELLOWFIN TUNA PEPSIN AND ITS APPLICATION
FOR EXTRACTION COLLAGEN PEPTIDE FROM TILAPIA SKIN
- 14:50 Jing-Jen Lin**, Bonnie Sun Pan
SAFETY AND QUALITY OF CULTURED CLAM BY-PRODUCT WITH LIVER-
PROTECTIVE PROPERTIES
- 15:10 CANCELLED**
Wen Jye Mok, Chee Ping Tan, Siti Zurini Yaacob, Nor Syafiqah Ruzani,
Nurul Adawiyah Mohd Noor, Ying Giat Seah
ASSESSMENT OF TRACE ELEMENTS IN *Euthynnus affinis*, *Thunnus tonggol*,
AND *Nemipterus furcosus* FROM EAST COAST OF PENINSULAR MALAYSIA

OPEN OCEAN CAGE CULTURE – FISH AGENCY

Tuesday, April 24 13:50 - 15:30 Room 103

Chair: TBA

Agenda to be announced

TILAPIA HEALTH

Tuesday, April 24 13:50 - 17:20 Room 102
Chairs: Yeng Sheng Lee, Christopher Beattie



- 13:50 Christopher Beattie**
OPENING ADDRESS
- 14:10 Chi Fai Aaron Leung**
FISH DISEASE IN HONG KONG AQUACULTURE
- 14:50 Win Surachetpong**
BIOSECURITY MANAGERMENTS TO CONTROL TILAPIA LAKE VIRUS AND BACTERIAL DISEASES IN TILAPIA FARMS
- 15:30 BREAK**
- 16:00 Yeng Sheng Lee**
TILAPIA DISEASE MANAGEMENT – CONTROL USING GOOD FARM HUSBANDRY PRACTICES AND ACHIEVE PROTECTION WITH VACCINES
- 16:40 Frank Tan**
AQUATIC HEALTH MANAGEMENT IN SINGAPORE – PREPARATION FOR DISEASES PREVENTION

FOOD SAFETY: GOOD AGRICULTURAL PRACTICES

Tuesday, April 24 16:00 - 17:20 Room 201f
Chair: Bonnie Sun Pan

- 16:00 Jayshree Soni**
GOOD AGRICULTURAL PRACTICES AND FOOD SAFETY
- 16:20 Hsiao-Chun Tseng**
SEAFOOD LABELING, SEAFOOD SAFETY AND ENVIRONMENTAL SUSTAINABILITY

SUSTAINABLE ENVIRONMENT TO AQUACULTURE

Tuesday, April 24 16:00 - 17:20 Room 103

Chair: Yew-Hu Chien



- 16:00 Hsin-hsin Tung**
APPLICATIONS OF MICROBIAL ECOLOGY CONCEPT IN ENVIRONMENTAL MONITORING
- 16:20 Yu-sheng Wu**
IMPROVEMENT OF THE SHRIMP AQUACULTURE SEDIMENT
- 16:40 Fan-Hua Nan, Hsiang-Yin Chen**
THE STRATEGIES FOR THE ESTABLISHMENT OF SUSTAINABLE AQUACULTURE
- 17:00 Laila Gallego, Yew-Hu Chien**
EFFECTS OF LIGHT SOURCES AND PHOTOPERIODS ON GROWTH OF DUCKWEED *Landoltia punctata* AND ITS WATER QUALITY

STUDENT SESSION: CAREERS IN AQUACULTURE

Tuesday, April 24 16:00 - 17:20 Room 201a

Chair: Bibha Kumari

- 16:00 Sagiv Kolkovski**
MY EXPERIENCE' IN AQUACULTURE R&D ESPECIALLY WITH NEW SPECIES
- 16:15 Pham Quoc Hung**
OPPORTUNITIES FOR STUDENTS SEEKING AQUACULTURE DEGREE OR PROFESSIONAL CERTIFICATE IN NHA TRANG UNIVERSITY (NTU), VIETNAM
- 16:30 Farshad Shishehchian**
AQUACULTURE FUTURE AND INTENSIFICATION
- 16:45 Guillaume Drillet**
FROM ACADEMIA TO COMMERCIAL SERVICES
- 17:00 Benni Hansen**
30 YEARS WITH COPEPODS – FROM NATURE TO CULTURE
- 17:15 DISCUSSION**

WEDNESDAY, April 25

OYSTER, ABALONE AND MUSSEL CULTURE

Wednesday, April 25 09:00 - 12:40 Room 105

Chairs: Debashish Mazumder, Jesmond Sammut

- 09:00** **Ziniu Yu**, Yang Zhang, Zhiming Xiang
DRAFT GENOME OF THE HONG KONG OYSTER *Crassostrea hongkongensis*
- 09:20** **Sandra Zainathan**, Ka Hong Tee, Siti Nur Khadijah Addis, Najiah Musa
DETECTION OF HEPATITIS A VIRUS, FECAL COLIFORM AND *E. coli* IN CULTURED OYSTER *Crassostrea iredalei* FROM SOUTHERN MALAYSIA
- 09:40** **Hebert Ely Vasquez**, Xing Zheng, Aimin Wang
EFFECT OF DIFFERENT LIGHT WAVELENGTHS ON THE BEHAVIOR AND BYSSAL ATTACHMENT OF THE PEARL OYSTERS *Pteria penguin* AND *Pinctada fucata martensii* JUVENILES
- 10:00** **Helcio Luis Almeida Marques**, Cintia Fernanda Garcia, Marcia Santos Nunes Galvão, José Luiz Alves, José Donizete Oliveira Santos
COMPENSATORY GROWTH IN SCALLOPS *Nodipecten nodosus* FARMED IN TROPICAL REGION (CARAGUATATUBA, SP, BRAZIL)
- 10:20** **BREAK**
- 10:40** **Ainulyakin Imlani**, Jurma Tikmasan, Abduraji Tahlil, Gonchio Baltazar
WATER ACIDIFICATION: A LIMITING FACTOR ON LARVAL SETTLEMENT OF DONKEY'S EAR ABALONE *Haliotis asinina* L.
- 11:00** **Gayashani Sanadamalika Wijamunige**, Thiunuwan Priyathilaka Thanthrige, Jehee Lee
MOLECULAR CHARACTERIZATION OF KAPPA CLASS GLUTATHIONE S-TRANSFERASE FROM DISK ABALONE *Haliotis discus discus* AND EXPRESSION ANALYSIS UPON IMMUNE AND STRESS RELATED RESPONSES
- 11:20** **Dyahruri Sanjayasari**, Andrew Jeffs
ABILITY OF JUVENILE GREEN-LIPPED MUSSEL *Perna canaliculus* TO FILTER FEED ON MICROALGAE OF DIFFERENT SIZES AND TAXA
- 11:40** **Harshani Nainanayaka Pathirannehelage**, Jeong Hwa Kim, Chul-Won Kim, Kwang-Sik Choi
CYCLIC CHANGES OF GAMETOGENESIS AND QUANTIFICATION OF REPRODUCTIVE OUTPUT OF HORSE CLAM *Tresus keenae* IN YEOSU, SOUTH KOREA

FUNCTIONAL FEED FOR HEALTH MANAGEMENT

Wednesday, April 25 09:00 - 12:40 Room 103

Chairs: Peter Coutteau, Han-Ching Wang



WEDNESDAY

- 09:00 Yu-Hung Lin**
NUTRITIONAL CONCEPT IN PLANT-BASED AQUAFEED: A BRIEF REVIEW FOR CHOLESTEROL AND BILE SALT
- 09:30 Maria Mercè Isern-Subich**, Sergio Sánchez-Nuño, Ignasi Sanahuja, Laura Fernández-Alacid, Borja Ordóñez-Grande, Peter Coutteau, Antoni Ibarz, Sam Ceulemans
EFFECT OF A NOVEL FEED ADDITIVE ON PERFORMANCE AND HEALTH INDICATORS DURING NATURAL THERMAL FLUCTUATIONS IN GILT HEAD SEA BREAM *Sparus aurata* CAGE CULTURE
- 10:00 Vu An To**, Chyng-Hwa Liou
THE EFFECT OF TAURINE SUPPLEMENTATION TO ALTERNATIVE DIETARY SOYBEAN CONCENTRATE USED IN FISH MEAL REPLACEMENT ENHANCES GROWTH PERFORMANCE, BODY COMPOSITION, HAEMOLYMPH PARAMETERS, IMMUNE RESPONSES AND TAURINE CONCENTRATION IN PLASMA OF JUVENILE WHITE SHRIMP *Litopenaeus vannamei*
- 10:30 BREAK**
- 11:00 Prakan Chiarahkhongman**
THE 3C STRATEGY: ANTIBIOTIC FREE HEALTH MANAGEMENT PRACTICES FOR SHRIMP FARMING IN THAILAND
- 12:00 Gim Chong Ho**, Allen Wu, Peter Coutteau, Maria Merce Isern-Subich, Alexander van Halteren
FARM APPLICATION OF A FUNCTIONAL FEED ADDITIVE: AN ESSENTIAL TOOL IN THE HEALTH MANAGEMENT OF WHITE FECES SYNDROME IN ASIAN SHRIMP FARMING

FISH DISEASES – CONTINUED

Wednesday, April 25 09:00 - 12:40 Room 201d

Chairs: Li-Li Chen, Pinwen Chiou

- 09:00** **Yoonhang Lee**, Do-Hyung Kim
TRANSCRIPTOME ANALYSIS OF *Streptococcus paruaberis* IN THE SERUM OF OLIVE FLOUNDER *Paralichthys olivaceus*
- 09:20** **Hung Tran Bao**, Ta-Chih Cheng
MODULATION OF PRO- AND ANTI-INFLAMMATORY CYTOKINES IN COBIA *Rachycentron canadum* FOLLOWING *Photobacterium damsela* subsp. *piscicida* INFECTION
- 09:40** **Heyong Jin Roh**, Do-Hyung Kim
STUDY ON APPLICATION OF LIGHT EMITTING DIODE TO CONTROL PHYSICAL WOUND IN FISH
- 10:00** **Ahran Kim**, Do-Hyung Kim
TRANSCRIPTOME ANALYSIS OF HEAD KIDNEY FROM BLACK ROCKFISH *Sebastes schlegeli* (HILGENDORF) INFECTED WITH *Aeromonas salmonicida* subsp. *masoucida* RFAS1
- 10:20** **BREAK**
- 10:40** **Marz Linnaeous Rabadon**, Karl Marx Quiazon, Casiano Choresca
ANTIMICROBIAL ACTIVITY OF MALE AND FEMALE SNAKEHEAD *Channa* sp. MUCUS AND ITS ASSOCIATED MICROBIOTA AGAINST SELECTED PATHOGENIC BACTERIA OF FRESHWATER FISHES
- 11:00** **Nurliyana Mohamad**, Amal M.N.A., M. Zamri-Saad, M.Y. Ina-Salwany, A. Azila
NATURAL CONCURRENT INFECTION OF *Vibrio harveyi* AND *V. alginolyticus* IN HYBRID GROUPERS *Epinephelus polyphekadion* × *E. fuscoguttatus*
- 11:20** **Menaga Meenakshisundaram**, A. Gopalakannan, Felix S., C. Garcia-Diez, A. Rodriguez, A. Martinez
EFFECT OF DIETARY SUPPLEMENTATION OF PHYTOBIOTIC FEED ADDITIVE ON GROWTH PERFORMANCE AND RESISTANCE OF NILE TILAPIA *Oreochromis niloticus* TO *Streptococcus agalactiae* SEROTYPE II
- 11:40** **Pin Nie**, Zubair Laghari
TYPE I IFN SYSTEM IN MANDARIN FISH *Siniperca chuatsi*: COMPOSITION, SIGNALLING, FUNCTION AND TRANSCRIPTION

SHRIMP HEALTH AND DISEASE: MICROBIOME AT AQUATIC ORGANISM AND PROBIOTICS

Wednesday, April 25 09:00 - 12:40 Room 102

Chairs: Chu-Fang Lo, Ramya Kumar

WEDNESDAY

- 09:00** **Ramya Kumar**, Tze-Hann Ng, Che-Chih Chang, Shih-Shun Lin, Chu-Fang Lo, Han-Ching Wang
BILE ACID AND BILE ACID TRANSPORTERS ARE INVOLVED IN PATHOGENESIS OF ACUTE HEPATOPANCREATIC NECROSIS DISEASE IN WHITE SHRIMP *Litopenaeus vannamei*
- 09:20** **Kathy Tang**, Jun Eun Han, Jin Woo Jun, Se Chang Park, Xiao Hui Zhou
POTENTIAL APPLICATIONS OF BACTERIOPHAGES AND NATURAL PRODUCTS FOR THE CONTROL OF ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND)
- 09:40** **Wang Han-Ching**, Ng Tze Han
DYNAMICS OF THE SHRIMP STOMACH BACTERIAL MICROBIOME IN AN AHPND-AFFECTED POND
- 10:20** **BREAK**
- 10:40** **Yi-Ting Zeng**, Han-Ching Wang
RAS HAS AN IMPORTANT ROLE IN WSSV-INDUCED WARBURG EFFECT
- 11:00** **Kamarul Zaman Zarkasi**, Amirul Asyraf Aliam, Nurul Syakirah Mohamad Suhaimi, Muhammad Faiz Abdul Kuthoose, Shi Yin Yeoh, Darah Ibrahim
BACTERIAL COMMUNITY DIVERSITY ASSOCIATED WITH HEALTHY AND UNHEALTHY SHRIMP (ACUTE HEPATOPANCREATIC NECROSIS DISEASE) FROM SHRIMP FARM IN MALAYSIA
- 11:20** **Rungkarn Suebsing**, Kallaya Sritunyalucksana
IMPROVEMENT OF SURVIVAL RATE IN THE *Vibrio harveyi*-CHALLENGED PACIFIC WHITE SHRIMP *Penaeus vannamei* AFTER PRE-EXPOSURE WITH FORMALIN-KILLED BACTERIA
- 11:40** **Po-Tsang Lee**, Kuan-Xuan Chen, Kuo-Kau Lee, Ping-Chung Liu
EVALUATION OF THE EFFICACY OF *Pediococcus acidilactici* AS PROBIOTIC SUPPLEMENTS TO PROTECT *Caridina logemanni* AGAINST A COMMON PATHOGEN *Aeromonas hydrophila*

ECOLOGY, ENVIRONMENT, BIODIVERSITY AND CLIMATE CHANGE

Wednesday, April 25 09:00 - 15:30 Room 201f

Chair: Aurore Trottet

- 09:00** **Chenhong Li**, Shuli Song, Jinliang Zhao
THE GENETIC DIVERSITY OF THE SINIPERCIDS
- 09:20** **Te-Hua Hsu**, Hong-Yi Gong, Chang-Wen Huang
SOURCE IDENTIFICATION OF THREE MAJOR SPARIDAE FISHES BY USING BAYESIAN CLUSTERING METHOD FOR STOCK ENHANCEMENT IN TAIWAN
- 09:40** **Jin-Chywan Gwo**, Pete Rand, Christopher Burridges, Francis Juanes, Sergey Zolotukhin, Kazumi Hosoya, Kentaro Morita, Shoichiro Yamamoto, Jun-ichi Tsuboi, Genki Sahashi, Kouta Miyamoto, Koh Hasegawa, Kazumasa Ohkuma, Masayuki Kuwahara, Yoshiyuki Umatani, Shigeru Kitanishi, Yukio Iwatsuki, Toshinao Ineno, H.-Y. Cheng
THE JOINT STATEMENT OF THE INTERNATIONAL SYMPOSIUM ON THE DISCOVERY OF FORMOSA LANDLOCKED SALMON'S 100TH ANNIVERSARY
- 10:00** **Yau-Chung Hu**, Tsung-Han Lee
TRANSCRIPTOMIC ANALYSES REVEAL DIFFERENTIAL ACTIVATION OF GENETIC INFORMATION PROCESSING PATHWAYS IN GILL STRUCTURE PLASTICITY OF 18°C- AND 15°C-EXPOSED INDIAN MEDAKA *Oryzias dancena*
- 10:20** **BREAK**
- 10:40** **Yuan-Chieh Cheng**, Tsung-Han Lee
ENVIRONMENTAL SALINITY EFFECTS ON OLIGOPEPTIDE ABSORBING MECHANISMS IN INTESTINES OF THE SPOTTED GREEN PUFFER *Dichotomyctere nigroviridis*
- 11:00** **Jon P. Altamirano**
ADVERSE EFFECTS OF STORMS ON GROWTH AND SURVIVAL OF JUVENILE TIGER SHRIMP *Penaeus monodon* IN A MANGROVE SILVO-AQUACULTURE PEN
- 11:20** **Reginor Lyzza Roque**, Gemar Malapira, Reggie Dulay, Diana Jucutan, Keith Joshua Molina
ASSESSMENT OF BIOTIC FAUNA IN SELECTED TRANSPLANTED MANGROVE SITES OF SANTO TOMAS, LA UNION, PHILIPPINES

WEDNESDAY

- 11:40 Hon Jung Liew**, Yusnita Abd. Thalid, Ros Suhaidah Razali, Sharifah Rahmah, Mazlan Abd. Ghaffar
WARMING CONDITION INDUCED HIGH LIVING COST AND DEPRESSED SPAWNING PERFORMANCES OF AIR BREATHING FISH
- 12:00 Yi-Pei Cheng**, Tsung-Yu Han, Han-Chuan Tsai, Wei-Fan Chen, Jay-Ron Lee, Pung-Pung Hwang, Fu-I Lu
COMPARISON OF CALCIUM BALANCING STRATEGIES DURING HYPOTHERMIC ACCLIMATION OF TILAPIA *Oreochromis mossambicus* AND GOLDFISH *Carassius auratus*
- 12:20 Aurore Trottet**, Mads J. Birkeland, Hanne Kaas, Flemming Møhlenberg, Rikke M. Closter, Mai-Britt Kronborg, José A. Arenas
REALIZING THE DANISH STRATEGIC PLAN FOR SUSTAINABLE MARINE AQUACULTURE
- 12:40 LUNCH**
- 13:50 Ik Kyo Chung**, Jin Ae Lee
SEAWEED SOLUTION AND CARBON ZERO SEAWEED TOWN (CØST) WITH ANAMAM
- 14:10 Leila Basti**, Jiyoji Go, Keita Higuchi, Sho Okano, Kyohito Nagai
OXIDATIVE STRESS IN LARVAE OF JAPANESE PEARL OYSTER *Pinctada fucata martensii* CAUSED BY ICHTHYOTOXIC HARMFUL ALGAE *Chattonella marina* AND *Karenia mikimotoi*
- 14:30 Bibha Kumari**, D.K. Paul
CLIMATE CHANGE AND HUMAN INTERVENTION HAS CHANGED THE FISHERY STATUS OF RIVER GANGA
- 14:50 Rosalyn L Bautista**, Marijoy D. Bernardo, Isagani P. Angeles Jr.
CLIMATE CHANGE ATTITUDE INVENTORY OF THE COASTAL FISHERFOLKS IN THE COASTAL AREAS OF PALANAN, ISABELA, PHILIPPINES

AQUAFEEDS: NUTRITION

Wednesday, April 25 09:00 - 17:20 Room 201b

Chairs: Shyn-Shin Sheen, Jen-Hong Chu, Chun-Hung Liu, David Tung



SHENG LONG

WEDNESDAY

- 09:00 Hoa Nguyen Duy**
PROTEIN INGREDIENTS: CONSIDERATIONS THAT IMPACT ON ANIMAL PERFORMANCES AND PROFITABILITY FOR AQUA FEED
- 09:20 Menaga Meenakshisundaram**, Felix Sugantham, Samuel Moses
EFFECT OF ENRICHED ARTEMIA (LEACH) NAUPLII WITH FATTY ACIDS ON GROWTH PERFORMANCE OF *Penaeus vannamei* POST LARVAE
- 09:40 Michele Muccio**, Rui Alexandre Gonçaves, Ursula Hofstetter, Timothy Jenkins, Dian Schatzmayr
WORLDWIDE MYCOTOXIN OCCURRENCE IN PLANT MEALS: AN OVERLOOKED RISK TO AQUACULTURE?
- 10:00 Dennis Almazan Mateo**, Bobby C. Cairel
FERMENTED PLANT JUICE KANGKONG *Ipomea aquatica* ENHANCES GROWTH PERFORMANCE, FEED EFFICIENCY AND SURVIVAL OF NILE TILAPIA *Oreochromis niloticus* FINGERLINGS
- 10:20 BREAK**
- 10:40 Narissara Suratip**, Bundit Yuangsoi
OPTIMAL DIETARY METHIONINE ON GROWTH PERFORMANCE AND FEED UTILIZATION OF FINGERLING SNAKEHEAD FISH *Channa striata*
- 11:00 Nur Suhailah Syed Mubarak**, Annita Seok Kian Yong, Rossita Shapawi
PARTIAL REPLACEMENT OF FISH OIL BY PLANT SOURCE OILS IN DIET FOR HYBRID GROUPER JUVENILE *Epinephelus fuscoguttatus* × *Epinephelus lanceolatus*
- 11:20 Sharifah Rahmah**, Hon Jung Liew, Nur Syahirah Arifin
ENERGY MOBILIZATION AND INTESTINAL MORPHOLOGY OF FOOD DEPRIVED JAVA BARB *Barbonymus gonionotus* JUVENILES
- 11:40 Hector Torrealba**, Sandra Rodrigues, Fernando Magalhaes, Wilson Furuya
USE OF BIOSURFACTANT IN DIETS FOR NILE TILAPIA *Oreochromis niloticus*: DIGESTIBILITY AND PERFORMANCE

12:00 Mahdieh Jafari, Mohmmad Saleh Kamarudin, Reza Hasan Sajedi,
Che roos Saad, Aziz Arshad
CHANGES OF DIGESTIVE ENZYMES ACTIVITY WITH DIFFERENT DIETS IN
Rutilus frisii Kutum

12:20 Jayshree Soni
FOOD SECURITY THROUGH AQUACULTURE DEVELOPMENT (FISHERIES) TO
STRENGTHEN THE WOMEN, ESPECIALLY IN RURAL AREAS

12:40 LUNCH

13:50 Bingyan Lu, Taizhuo Zhang
KEY POINTS OF COMMERCIAL FEED FORMULATION FOR ASIAN SEA BASS IN
CHINA

14:10 Qiufen Dong, Song Zhang, Yong Yang
KEY POINTS OF CONTROLLING THE FISH BODY COLORATION

14:30 Yu-Jen Tseng, Chin-yen Chang, Ching-Chen Lin, Su-Mei Wu, Bonnie Sun Pan
EFFECTS OF I-TIAO-GUNG GLYCINE *Tomentella hayata* EXTRACTS TO
REDUCE TRANSPORT STRESS RESPONSES ON TWO SPECIES OF
ORNAMENTAL FISH

14:50 Wutiporn Phromkunthong, Supornchai Sri-Nhonghang, M.A. Kabir Chowdhury
DIETARY PROTEASE SIGNIFICANTLY IMPROVES FEED CONVERSION IN
PACIFIC WHITE SHRIMP FED DIETS WITH GRADED LEVEL OF FISHMEAL

15:10 Noe Noe Lwin, Levy Manalac, Lukas Manomaitis
GROW-OUT PRODUCTION OF MONON-SEX TILAPIA IN PONDS USING
IMPROVED PRODUCTION AND FEEDING REGIME IN MYANMAR

SHRIMP CULTURE

Wednesday, April 25 09:00 - 17:20 Room 201a
Chairs: Guan-Chung Wu, Tran Ngoc Hai

09:00 Raveh Gill-More, Assaf Shechter, Tom Levy, Brit Eilam, Dudu Azulay,
Eliahu D. Aflalo, Amir Sagi
ALL-FEMALE SHRIMP CULTURE – PERFORMANCE DATA IN A COMMERCIAL SETTING

- 09:20** **Craig Browdy**, Ramir Lee, Peter Van Wyk, Susan Laramore
THE ROLE OF HATCHERY BIOSECURITY AND RISK MANAGEMENT IN CONTROLLING EMERGING PATHOGENS
- 09:40** **Yang Yu**, Xiaojun Zhang, Jianbo Yuan, Quanchao Wang, Shihao Li, Fuhua Li, Jianhai Xiang
IDENTIFICATION OF SEX-DETERMINING LOCI IN PACIFIC WHITE SHRIMP *Litopenaeus vannamei* USING LINKAGE AND ASSOCIATION ANALYSIS
- 10:00** **Jianhai Xiang**, Fuhua Li, Xiaojun Zhang, Yang Yu, Jianbo Yuan, Hao Huang, Yamin Sun
GENETIC SELECTIVE BREEDING AND GENOME SEQUENCING OF PENAEID SHRIMP
- 10:20** **BREAK**
- 10:40** **Hiranmoy Bhattacharjee**, Mohammed Tarique Sarker, Bulent Kukurtcu
STUDY ON THE IMPACT VIUSID-AQUA AS ANTIVIRAL AND IMMUNE MODULATOR FOR SUSTAINABLE HEALTH MANAGEMENT AND SEED PRODUCTION OF PRAWN *Macrobrachium rosenbergii* IN HATCHERY CAPTIVITY IN BANGLADESH
- 11:00** **Shu-Ting He**, Cheng-Yi Tung, Der-Yen Lee, Han-Ching Wang
WSSV TRIGGERS GLUTAMINOLYSIS AND REDUCTIVE GLUTAMINE METABOLISM AT THE VIRAL GENOME REPLICATION STAGE
- 11:20** **Ping-Han Chung**, Ann-Ru Wu, Yun-Long Tsai, Li Li, Chuan-Fu Mark Tsai, Hsiao-Fen Grace Chang, Pei-Yu Alison Lee
A FIELD-DEPLOYABLE PCR SYSTEM FOR RAPID AND SENSITIVE DETECTION OF EMERGING SHRIMP HEMOCYTE IRIDESCENT VIRUS
- 11:40** **Fuhua Li**, Shihao Li, Yang Yu, Jianhai Xiang
RESEARCH PROGRESS IN THE INNATE IMMUNITY OF PENAEID SHRIMP AND ITS POTENTIAL APPLICATION IN AQUACULTURE
- 12:00** **Krishna R. Salin**, Amara Yakupitiyage, Dhaval Bamaniya, Harikumar S., M. Rajalekshmi
EFFECT OF COMMERCIAL FEED SUPPLEMENTS ON THE GROWTH PERFORMANCE AND IMMUNE RESPONSE OF *Litopenaeus vannamei* AGAINST *Vibrio parahaemolyticus*
- 12:40** **LUNCH**

- 13:50** **Lena Burri**, Anne Ågård Syversen
IMPROVING SHRIMP FEED PERFORMANCE WITH KRILL MEAL
- 14:10** **Amina Moss**, Shunsuke Koshio, Manabu Ishikawa, Saichiro Yokoyama, Mahmoud Dawood
USING CONDITION INDEX TO ASSESS THE EFFECTS OF CALCIUM SUBSTITUTION BY MARINE SNAIL SHELLS IN THE DIETS OF JUVENILE KURUMA SHRIMP *Marsupenaeus japonicus*
- 14:30** **Nataliya Kryakhova**, Nikolina Kovacheva
STOCKING MATERIAL PRODUCTION OF GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii* IN RUSSIA
- 14:50** **A. Vidya**, M. Rajalekshmi
MAINTAINING MINERAL BALANCE IN SHRIMP CULTURE SYSTEMS
- 15:10** **Ut Vu Ngoc**, Vinh Huynh Phuoc, Tinh Tran Duc
IMPORTANCE OF ZOOPLANKTON INDUCTION IN WHITE LEG SHRIMP *Penaeus vannamei* INTENSIVE CULTURE PONDS
- 15:30** **BREAK**
- 16:00** **Tran Ngoc Hai**, Chau Tai Tao, Duong Thuy Yen, Pham Thanh Liem, Tran Thi Thanh Hien, Nguyen Thanh Phuong
DOMESTICATION AND SELECTION OF BROODSTOCK FOR SEED PRODUCTION OF GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii* IN THE MEKONG DELTA, VIETNAM
- 16:20** **John Buchanan**, America Fujimoto, Tiago Hori, Melissa Allen, E Hu, Jason Stannard
GENETIC TECHNOLOGIES AND THE FUTURE OF BREEDING IN SHRIMP
- 16:40** **Hsin-Wei**, Kuo Winton, Cheng
THE REGULATION OF PHYSIOLOGY AND IMMUNOLOGY BY TYROSINE HYDROXYLASE ON *Litopenaeus vannamei*
- 17:00** **Menaga Meenakshisundaram**, Felix Sugantham, Gopalakannan Ayyaru
IMMUNE RESPONSE AND DISEASE RESISTANCE OF VANNAMEI SHRIMP FED BIOFLOC GROWN ON IN SITU AND EX SITU METHODS

CRAB CULTURE

Wednesday, April 25 13:50 - 15:30 Room 201d

Chairs: Guan-Chung Wu, Tran Ngoc Hai, Te-Hua Hsu, Po-Yu Huang

- 13:50 Fui Yin Thien**, Saleem Mustafa, Annita Seok Kian Yong
REPRODUCTIVE PERFORMANCE OF PURPLE MANGROVE CRAB *Scylla tranquebarica* BROODSTOCK FED DIFFERENT MATURATION DIET
- 14:10 CANCELLED**
Muhammad Nur Syafaat, Gunarto Gunarto, Sharif Shahin, Mhd Ikhwanuddin
NURSERY OF MUD CRAB *Scylla olivacea* FED WITH ADULT ARTEMIA
- 14:30 Alexander Chong**, Meng-Kiat Kuah, Min-Qian Mah, Janaranjani Manogoran, Merosha Purushotman, Annette Jayaram
CAN CRUSTACEANS SYNTHESIS LONG-CHAIN POLYUNSATURATED FATTY ACIDS? RECENT EVIDENCE FROM MOLECULAR CHARACTERISATION OF *Brachyuran elongases*
- 14:50 MOVED TO 17:00 SHRIMP SESSION**
Menaga Meenakshisundaram, Felix Sugantham, Gopalakannan Ayyaru
IMMUNE RESPONSE AND DISEASE RESISTANCE OF *VANNAMEI* SHRIMP FED BIOFLOC GROWN ON *IN SITU* AND *EX SITU* METHODS

PRODUCTION SYSTEM: TECHNOLOGY AND EQUIPMENT

Wednesday, April 25 13:50 - 15:30 Room 105

20105 Chair: Chyng-Hwa Liou

- 13:50 Chelsea Andrews**, Samuel Couture Brochu, Marnix Faes, Louis-David Coulombe, Julien Roy
ARTIFICIAL INTELLIGENCE TO GAIN VALUABLE INSIGHT ON AQUATIC ORGANISMS
- 14:10 Jenn-Kan Lu**, Dai Rui-Hong
SMART AND PRECISE AQUACULTURE SYSTEM FOR INCREASING PRODUCTIVITY AND SUSTAINABLE PRODUCTION OF AQUACULTURE
- 14:30 David Marioni**, Nor Azman Kasan, Mhd Ikhwanuddin
THE USE OF SUBSTRATES FOR AQUACULTURE SPECIES' DOMAIN IMPROVEMENT AND BIOFILTRATION
- 14:50 Yuan-Nan Chu**, Cheng-Ting Chen
DEVELOPMENT OF A HIGH DENSITY, CONTINUOUS ROTIFER PRODUCTION SYSTEM USING WATER CHANGE TO CONTROL AMMONIA

- 15:10 Michael Voigtmann**
SMART FLOATING FARMS – CHALLENGES FROM A FARMING PERSPECTIVE
- 15:30 Hoang Nguyen Vo**, Lukas Manomaitis, Jesse Chappell, Levy Manalac
IPRS - IN POND RACEWAY SYSTEM TECHNOLOGY APPLICATION IN VIETNAM TO HELP FRESHWATER FISH FARMS TO OVERCOME PRODUCTION ISSUES AND DRAMATICALLY INCREASE YIELDS

**ADVANCED NUTRITION AND DISEASE RESEARCH
ON SHRIMP AND FISH**

Wednesday, April 25 13:50 - 17:20 Room 102
Chair: TBA



- 13:50 Chu-Fang Lo**, Han-Ching Wang
PRODUCTION OF WSD-RESISTANT SHRIMP – AN INTERVENTION THAT HELPS SHRIMP IN THE ARMS RACE AGAINST WSSV
- 14:30 Huu Loc Tran**, Vy Van Nguyen, Phuc Hoang, Trang Nguyen
HOLISTIC APPROACHES IN BACTERIAL DISEASE PREVENTION WITH FOCUS ON EMS/AHPND AND WHITE FECES DISEASE (WFD)
- 15:00 Chi Man**, Peer Staehler, Daniel Aydin, Peter Ader
MONOGLYCERIDE TECHNOLOGY AND APPLICATION IN AQUACULTURE
- 15:30 BREAK**
- 16:00 Vo Van Son**
VIETNAM *Pangasius/Panga* RESPONSIBLE AND ENVIRONMENTAL FRIENDLY
- 16:30 Yanjiao Zhang**, Yang Liu, Zhichu Chen, Haibin Hu, Yanxian Li, Pei Yang, Qinghu Ai, Wenbing Zhang, Kangsen Mai
STUDIES ON THE IMPAIRMENT IN INTESTINAL HEALTH OF TURBOT CAUSED BY DIETARY SOYBEAN MEAL AND THE MITIGATING STRATEGY
- 17:00 Dung Tu**, Trung Nguyen, Khoi Le, Chau Doan, Cheng Chuang, Le Quach, Haibin Hu
IDENTIFICATION AND CHARACTERISTICS OF AGENT CAUSING INTERNAL WHITE SPOT DISEASE IN SNAKEHEAD FISH *Channa striata* IN COMMERCIAL FARM AT THE MEKONG DELTA, VIETNAM

FUNCTIONAL FEED INGREDIENTS FOR AQUAFEED

Wednesday, April 25 13:50 - 17:20 Room 103

Chairs: Lin Yu-Hung, Jeffery Jiang



WEDNESDAY

- 13:50 Yu-Hung Lin, Jhih-Jie Jiang, Li-Chao Zhuo**
EFFECTS OF DIETARY *Lactobacillus* FERMENTED SOYBEAN MEAL AND LACTIC ACID SUPPLEMENTATION ON GROWTH, NUTRIENT DIGESTIBILITY AND INTESTINAL MORPHOLOGY OF GROUPER
- 14:10 Jhih-Jie Jiang, Yu Hung Lin, Win Ton Cheng**
REVIEW: APPLICATION OF BIO-HYDROLYZED SOYA PROTEIN IN AQUAFEED
- 14:30 Sjo Zwart**
COMPARATIVE EFFICACY OF VARIOUS PHOSPHATE SOURCES OF THE GROWTH PERFORMANCE, PHOSPHORUS RETENTION AND DIGESTIBILITY IN WHITELEG SHRIMP *Litopenaeus vannamei*
- 14:50 Chui Fen Teoh, Sin Man Yap, Gunzo Kawamura, Leong Seng Lim**
APPLICATION OF ACIDIFIED DIETS IN THE REARING AND WEANING OF JUVENILE MARBLE GOBY *Oxyeleotris marmorata*
- 15:10 Alex Diana, Tilman Wilke**
PHYTOGENIC FEED ADDITIVE Anta®Ox FlavoSyn IMPROVES HARVEST VOLUMES OF RED NILE TILAPIA *Oreochromis niloticus* DUE TO HIGHER SURVIVAL
- 15:30 BREAK**
- 16:00 Dayang Nur Jazlyn Abang Zamhari, Annita Seok Kian Yong**
DIETARY SUPPLEMENTATION OF LOCAL MEDICINAL HERBS FOR HYBRID GROUPER *Epinephelus fuscoguttatus* × *E. lanceolatus* JUVENILE
- 16:20 Weilong Wang, Manabu Ishikawa, Shunsuke Koshio, Saichiro Yokoyama**
INTERACTIVE EFFECTS OF DIETARY ASTAXANTHIN AND CHOLESTEROL ON THE PERFORMANCES OF KURUMA SHRIMP *Marsupenaeus japonicus*
- 16:40 Norfazreena Mohd Faudzi, Rossita Shapawi, Shigeharu Senoo, Amal Biswas, Kenji Takii, Annita Seok Kian Yong**
EVALUATION OF SOYBEAN MEAL PRODUCTS WITH SUPPLEMENTATION OF PHYTASE IN THE FEEDS FOR HYBRID GROUPER, BROWN-MARBLED GROUPER *Epinephelus fuscoguttatus* × GIANT GROUPER *E. lanceolatus* JUVENILE

**ORNAMENTALS:
BREEDING, GENETICS, TRANSPORT TECHNOLOGY**

Wednesday, April 25 16:00 - 17:20 Room 201d

Chairs: Chih-Yang Huang

16:00

Su Mei Wu, Yu-Jen Tseng, Jing-Jen Lin, Bonnie Sun Pan

DEVELOP I-TIAO GUNG (*Glycine tomentella Hayata*) EXTRACTS TO DECREASE STRESS RESPONSES AND TO INCREASE THE TRANSPORTIVE POTENCY ON GROUPER *Epinephelus coioides*

WEDNESDAY

CAGE CULTURE

Wednesday, April 25 16:00 - 17:20 Room 105

Chair: Chyng-Hwa Liou

16:00

Jon Altamirano, Roselyn Baylon

NURSERY CULTURE OF SEA CUCUMBER *Holothuria scabra* IN SEA-BASED FLOATING HAPA BAG NETS: EFFECTS OF DENSITY AND REARING DURATION

THURSDAY, April 26

LIVE FEEDS FOR LARVICULTURE

Thursday, April 26 09:00 - 10:20 Room 103

Chair: Benni W. Hansen, Jennifer Cobcroft

- 09:00 Benni Winding Hansen**, Per Meyer Jepsen, Mariana Arango, Henrik Jespersen, Stephanie Michela Larsen, Thomas Allan Rayner, Kjeld Schaumburg
FEEDING A CALANOID COPEPOD ALGAL PASTE OR ARTIFICIAL DIATOMS – DO THEY ACCEPT THE DIETS?
- 09:20 Guillaume Drillet**, Tahina Rabarimanantsoa, Stephane Frouel, Jacob Lamson, Annette Christensen, Sandra Kim-Tiam, Benni Hansen, Sofiane Mahjoub, Remi Maguet, Mathilde Richer de Forges
THE USE OF MICROBIAL PREPARATIONS TO SUPPORT CULTURES OF COPEPODS FOR USE AS LIVE FEEDS
- 09:40 Jennifer M. Cobcroft**
OPTIMISING LIVE FEED ENRICHMENT FOR LARVICULTURE
- 10:00 Huu Dung Nguyen**, Mario Hoffmann, Nicolas Mace
ADAPTATION OF EUROPEAN PROTOCOLS OF LIVE FEED PRODUCTION AND ENRICHMENT FOR SMALL SCALE INDOOR MARINE FISH HATCHERIES IN SOUTH-EAST ASIA

TILAPIA HEALTH – CONTINUED

Thursday, April 26 09:00 - 10:20 Room 102

Chair: Le Minh Hoang

- 09:00 Ying-Jyun Chen**, Yu-Chun Lin, Yun-Long Tsai, Simon Chung, Pei-Yu Alison Lee
QUICK AND SIMPLE DETECTION OF TILAPIA LAKE VIRUS BY A FULLY AUTOMATED SAMPLE-TO-RESULT PCR SYSTEM
- 09:20 Nermeen M. Abu-Elala**, Nehal A. Younis Younis, Huda O. AbuBakr, Naela M. Ragaa, Melina A. Bonato, Liliana L. Borges
DIETARY INFLUENCE OF YEAST AS A SOURCE OF NUCLEOTIDES ON TILAPIA *Oreochromis niloticus*
- 09:40 Hong-Yi Gong**, Hong Nhat Pham, Chia-Hui Ho, Po-Chun Tseng, Yi-Hsuan Kuo, Sheng-Han Wu, Chang-Wen Huang
DEVELOPMENT OF HEPICIDIN FAMILY GENES ASSOCIATED MICROSATELLITES FOR MARKER-ASSISTED SELECTION OF DISEASE-RESISTANT TILAPIA

MARKETING, TRADE AND DEVELOPMENT

Thursday, April 26 09:00 - 10:20 Room 201f
Chairs: Cheng Hon Ki Christopher, Emmanuelle Bourgois

- 09:00 Jonathan Anugerah Hamonangan**, Zaenal Arifin, Cholida Ana Nia, Maruto Umar Basuki
ANALYSIS EFFECTIVITY OF MORODEMAK FISH AUCTION MARKET USING INSTITUTIONAL ECONOMY APPROACH
- 09:20 Debashish Mazumder**, Karthik Gopi, Jesmond Sammut, Neil Saintilan
NOVEL APPLICATION OF NUCLEAR TECHNIQUES FOR SEAFOOD PROVENANCE
- 09:40 Wei Hu**, Hui Xia, Chengrong Zhong, Xingxing Wu, Ji Chen, Binbin Tao, Xiaoqin Xia, Mijuan Shi, Zuoyan Zhu, Vance L. Trudeau
GAMETE MATURATION IN ZEBRAFISH REQUIRES M⁶A RNA MODIFICATION CATALYZED BY METTL3 METHYLTRANSFERASE

CARP AND MILKFISH CULTURE

Thursday, April 26 09:00 - 10:20 Room 201a
Chair: Le Minh Hoang

- 09:00 Shaojun Liu**, Shi Wang, Min Tao, Qinbo Qin, Chun Zhang, Yamei Xiao
THE CRUCIAN CARP DERIVED FROM FEMALE COMMON CARP × MALE BLUNT SNOUT BREAM
- 09:20 Veena Soni**
RESEARCH AND DEVELOPMENT STRATEGY FOR FISHERY TECHNOLOGY INNOVATION FOR SUSTAINABLE FISHERY RESOURCE MANAGEMENT IN NORTHEAST ASIA
- 09:40 Poramat Musikarun**, Thumronk Amornsakun
EFFECT OF SYNTHETIC HORMONE BUSERILIN ACETATE ON BREEDING OF *Tor douronensis* (VALENCIENNES, 1842)
- 10:00 Chia-Hao Chang**, Tsung-Han Lee
SALINITY EFFECTS ON STRATEGIES OF CARBOHYDRATE METABOLISM IN MILKFISH LIVERS UNDER LOW-TEMPERATURE STRESS

AQUAFEEDS: FUNCTIONAL FEEDS

Thursday, April 26 09:00 - 12:40 Room 201b

Chairs: Yii-Shing Huang, Yu-Hung Lin



SHENG LONG

- 09:00** **Leong-Seng Lim**, Chui-Fen Teoh, Gunzo Kawamura
DIETARY pH PREFERENCE IN JUVENILE MARBLE GOBY *Oxyeleotris marmorata*
AND THE POSSIBILITY OF WEANING THEM WITH ACIDIFIED DIETS
- 09:20** **Jenn-Kan Lu**
MOLECULAR NUTRITION AND NUTRIGENOMICS FOR THE DEVELOPMENT OF
FUNCTIONAL FEEDS OF AQUACULTURE
- 09:40** **Jutta Kesselring**, Benedict Standen, Christina Gruber, Joao Sendao, Silvia Wein
CONTINUOUS AND PULSE-FEEDING APPLICATION OF A MULTI-SPECIES
PROBIOTIC IN WHITELEG SHRIMP *Litopenaeus vannamei*
- 10:00** **Eric Leclercq**, Stéphane Ralite, Phuc Hoang, Loc Tran, Mathieu Castex
EFFECTS OF A MULTI-STRAINS YEAST-BASED FUNCTIONAL ADDITIVE ON
EHP-CHALLENGED JUVENILE WHITE SHRIMP *Litopenaeus vannamei*
- 10:20** **BREAK**
- 10:40** **Augusto Serrano Jr.**, Marj Gem Bunda, Barry Leonard Tumbokon,
Cheng Hao Tang
TRANSCRIPTOME ANALYSIS OF THE ACUTE PHASE RESPONSE OF *Penaeus*
vannamei TO WHITE SPOT SYNDROME VIRUS FOLLOWING FEEDING WITH
DIET CONTAINING ULVAN
- 11:00** **Fabian Jijon**, Francisca Veinat, Thomas Logemann
EFFECT OF PURE NATURAL OREGANO ESSENTIAL OIL ON MORTALITY
CONTROL ON JUVENILE SHRIMP *L. vannamei* IN RACEWAYS
- 11:20** **Eric Leclercq**, Stéphane Ralite, Diên Nguyen, Loc Tran, Castex Mathieu
EFFECT OF SELECTED FUNCTIONAL HEALTH FEED ON WHITE SHRIMP
Litopenaeus vannamei CHALLENGED WITH A NOVEL INFECTION MODEL FOR
WHITE FECES SYNDROME
- 11:40** **Yii-Shing Huang**, Jung-Shun Su
ADVANCED LARVAE CULTURE OF AMANO SHRIMP *Caridina multidentata* BY
COMBINED FEEDING WITH LIVE ALGAE AND PROBIOTIC BACTERIA

THURSDAY

- 12:00** **Eric Leclercq**, Stéphane Ralite, Phuc Hoang, Loc Tran, Mathieu Castex
EFFECT OF A MULTI-STRAINS YEAST-BASED FUNCTIONAL ADDITIVE ON
EHP-CHALLENGED JUVENILE WHITE SHRIMP *Litopenaeus vannamei*

SUSTAINABLE DEVELOPMENT OF AQUACULTURE

Thursday, April 26 09:00 - 12:40 Room 105

Chair: Aurore Trottet

- 09:00** **Shahid Mahboob Rana**, Bilal Hussain, Tayyaba Sultana, Salma Sultana,
Khalid Al-Ghanim
STUDY ON EFFECT OF POLLUTION ON GENOTOXIC DAMAGE IN TWO
IMPORTANT FISH SPECIES

- 09:20** **Ibrahim Belal**, Jean-Yves Mevel, Radhakrishnan Subramanian
ARID LAND AQUAPONIC SYSTEM OF TILAPIA *Oreochromis niloticus*
CULTIVATION AND CHERRY TOMATO PRODUCTION; BIOCHEMICAL
NUTRITIVE CHARACTERISTICS OF SYSTEM AND YIELD

- 09:40** **Hoang Truong Phuoc Thien**, Ai Pham Nhat, Dan Do Huynh, Hoa Nguyen Phu
ISOLATION AND SELECTION OF AMMONIA AND NITRITE-METABOLIZING
BACTERIA FROM BOTTOM SEDIMENT OF LOBSTER FARMING AT XUAN DAI
BAY, PHU YEN PROVINCE

- 10:00** **Nejdet Gültepe**, Mehmet r ad Gültepe, Musa Bulut
INTER-SPECIES COMPATIBILITY OF THE MICROBIAL FLORA OF THREE
TROUT SPECIES ON THE SAME CULTURE CONDITION

- 10:20** **BREAK**

- 10:40** **Chih-Han Tseng**, Hong-Thih Lai
STUDY ON WATER AND SEDIMENT AGING PROCESS IN WHITE SHRIMP
Litopenaeus vannamei CULTURE

- 11:00** **Eduardo C. Lim Jr.**, Isagani P. Angeles Jr., Hong-Thih Lai
EFFECT OF DIFFERENT SIZES AND STOCKING DENSITIES ON PRODUCTIVITY
AND WATER QUALITY OF GET EXCEL NILE TILAPIA *Oreochromis sp.*/ PANGASIOUS
Pangasius hypophthalmus- LETTUCE *Lactuca sativa* RAFT-AQUAPONIC SYSTEM

- 11:20** **Paloma D. De Chavez**, Miguel D. Visca Jr., Jennie B. Fernandez,
Dennis A. Mateo, Karl Marx A. Quaizon
ECOLOGICAL AND BIOLOGICAL CONDITIONS OF MARICULTURE PARK IN
SUAL, PANGASINAN IN CONNECTION WITH MILKFISH MORTALITIES IN CAGES

THURSDAY

FISH DISEASE: PROBIOTICS

Thursday, April 26 09:00 - 12:40 Room 201d

Chairs: Han-Ching Wang, Hsin-Yiu Chou

- 09:00 Tamer El-Sayed Ali**
THE PROTECTIVE ROLE OF SOME MARINE EXTRACTS AGAINST XENOBIOTICS USING ZEBRAFISH *Danio rerio* EMBRYOS
- 09:20 Cristina Garcia**, Niti Chuchird, Arunothai Keetanon,
Alvaro Rodriguez Sanchez-Arevalo, Antonio Martinez
ALTERNATIVE TO CONTROL VIBRIO LOAD AND AHPND/EMS IN SHRIMP FARMING
- 09:40 Noor Emilia Sharifah**, Siti Nazatul Mohd Yasim, Natrah Fatin Mohd Ikhsan
STUDY OF BACTERIA FROM SEAWEED AS ANTIBACTERIAL AND QUORUM SENSING DEGRADERS IN BIDONG ISLAND MALAYSIA
- 10:00 Noor Syazwani Omar**, Muhd Danish Daniel Abdullah,
Natrah Fatin Mohd Ikhsan, Shumpei lehata,
Sharifah Noor Emilia Syed Jamil Fadaak
PROBIOTICS BACTERIA AS QUORUM SENSING DEGRADER IN CONTROLLING DISEASES OF CULTURED FRESHWATER FISH
- 10:20 BREAK**
- 10:40 CANCELLED**
Ahmad Daud Om, Nik Haiha Nik Yusof, Shumpei lehata, Kua Beng Chu,
Zainuddin Jamari
THE POTENTIAL USE OF TUBER YAM WITH PROBIOTIC FOR GONAD DEVELOPMENT OF TIGER GROUPER
- 10:40 Eric Leclercq**, Stéphane Ralite, Mathieu Castex
SOME CRITICAL STEPS TO THE SUCCESSFUL DEVELOPMENT AND DEPLOYMENT OF AN (INTEGRATED) BIOREMEDIATION STRATEGY IN POND AQUACULTURE
- 11:00 Umi Salmah Binti Ahmed Sajali**, Nathan L. Atkinson, Andrew Desbois,
David C. Little, Francis Murray, Andy P. Shinn
PROPHYLACTIC PROPERTIES OF BIOFLOC OR NILE TILAPIA-CONDITIONED WATER AGAINST *Vibrio parahaemolyticus* INFECTION OF *Penaeus vannamei* WHITELEG SHRIMP

THURSDAY

MARINE FISH CULTURE

Thursday, April 26 10:40 - 12:40 Room 201a

Chairs: Chin-I Chang, Jennifer Cobcroft

- 10:40 Chien-Ju Lin**, Guan-Chung Wu, Ching-Fong Chang
GONADOTROPIN RELEASING HORMONE AND GONADOTROPIN VARIATIONS DURING THE GONADAL DIFFERENTIATION IN PROTANDROUS BLACK PORGY *Acanthopagrus schlegelii*
- 11:00 Dileepa Sripal Liyanage**, Malithi Omeka Welivitiye Kankanamge, Gelshan Imarshana Godahewa, Jehee Lee
MOLECULAR INSIGHTS, EXPRESSION ANALYSIS AND RADICAL SCAVENGING ACTIVITY OF NOVEL PROTEIN THIOREDOXIN DOMAIN CONTAINING PROTEIN 17 FROM *Hippocampus abdominalis*
- 11:20 Malithi Omeka Welivitiye Kankanamge**, Dileepa Sripal Liyanage, Gelshan Imarshana Godahewa, Jehee Lee
MOLECULAR, TRANSCRIPTIONAL AND FUNCTIONAL CHARACTERIZATION OF TWO GSTS FROM RED-LIP MULLET *Liza haematocheilus*
- 11:40 Veena Soni**
GREEN FEED IN THE MARINE FISH FARMING
- 12:00 Angela Chien**, Ralph Kirby, Shyn-Shin Sheen
THE RELEVANCE OF MITOCHONDRIAL LINEAGES OF TAIWANESE CULTURED GREY MULLET *Mugil cephalus* TO COMMERCIAL PRODUCTS OF ROE

EDUCATION, EXTENSION, TECHNOLOGY TRANSFER, ECONOMICS AND MANAGEMENT

Thursday, April 26 10:40 - 12:40 Room 201f

Chair: Young-Mao Chen

- 10:40 Sek Man Wong**
AQUACULTURE RESEARCH IN TROPICAL MARINE SCIENCE INSTITUTE OF NATIONAL UNIVERSITY OF SINGAPORE
- 11:00 Olivier M. Joffre**, P. Marijn Poortvliet, Laurens Klerkx
IS SHRIMP FARMING LIKE GAMBLING? A BEHAVIOURAL ANALYSIS OF FARMERS' DECISIONS

11:20 Siti Nasihin-Seth, Gunzo Kawamura, Nazia Abdul Kadar,
B. Mabel Manjaji-Matsumoto
ASPECTS OF THE TAXONOMY OF CATFISHES (SILURIFORMES: ARIIDAE)
BASED ON EXTERNAL MORPHOLOGICAL CHARACTERISTICS

11:40 MOVED TO POSTER BOARD 297
Yao-Jen Hsiao, Cheng-Ting Huang
BIOECONOMIC ANALYSIS OF IMPROVING MANAGEMENT PRODUCTIVITY
REGARDING SWAMP EEL *Anguilla marmoratads* AND SHORT-FINNED EEL
Anguilla bicolor FARMING IN TAIWAN

TILAPIA CULTURE

Thursday, April 26 10:40 - 12:40 Room 102

Chair: Le Minh Hoang, Felix Sugantham

10:40 Hector E. Torrealba, Sandra Rodrigues, Fernando Magalhaes, Wilson M. Furuya
USE OF BIOSURFACTANT IN DIETS FOR NILE TILAPIA *Oreochromis niloticus*:
DIGESTIBILITY AND PERFORMANCE

11:00 Nermeen M. Abu-Elala, Nehal A. Younis, Huda O. AbuBakr, Melina A. Bonato,
Liliana L. Borges
DIETARY INFLUENCE OF YEAST CELL WALL ON THE GROWTH
PERFORMANCE, OXIDATIVE STRESS PARAMETERS AND IMMUNITY OF
CULTURED *Oreochromis niloticus*

11:20 Felix Sugantham, Gopalakannan Ayyaru, Menaga Meenakshisundaram
SLUDGE CHARACTERISTICS OF BIOFLOC PRODUCED IN THE *IN SITU* AND
EX SITU BIOFLOC FED GIFT TILAPIA IN INTENSIVE POND CULTURE

11:40 Antonia Tacconi, Ermioni Papadopoulou, Joao Sendao, Jutta Kesselring
EFFICACY OF Biotronic® PX TOP3 ON PERFORMANCE AND RESISTANCE
OF NILE TILAPIA *Oreochromis niloticus* FROM INFECTION BY *Aeromonas*
hydrophila

12:00 Cherry T. Nian, Augusto E. Serrano Jr.
EFFECTS OF PINE POLLEN ON SEX REVERSAL AND GROWTH OF NILE
TILAPIA *Oreochromis niloticus* LARVAE

THURSDAY

GROUPE CULTURE

Thursday, April 26 10:40 - 15:30 Room 103

Chairs: Tzong-Yueh Chen, Le Anh Tuan

- 10:40** **Guan-Chung Wu**, Ching-Fong Chang, Hau-Wen Li, Wei-Lun Ku
SEXUAL FATE REPROGRAMMING IN THE STEROID-INDUCED
BI-DIRECTIONAL SEX CHANGE IN HERMAPHRODITIC FISH
- 11:00** **Minh Hoang Le**, Thuy Thanh Thi Nguyen
SPERM CRYOPRESERVATION OF TIGER GROUPE *Epinephelus fuscoguttatus*
- 11:20** **Che Zulkifli Che Ismail**, Koh Ivan Chong Chu, Sufian Mustafa,
Mohd Taufik Muhammad, Muhammad Nur Syafaat, Mhd Ikhwanuddin
PRODUCTION OF HYBRID GROUPE *Epinephelus lanceolatus* ♀ × *Epinephelus
fuscoguttatus* ♂ USING CRYOPRESERVED SEMEN TRANSPORTED BY DRY ICE
- 11:40** **Anh Tuan Le**
ASSESSMENT OF THE NUTRITIONAL VALUE OF FEED INGREDIENTS FOR
FEED DEVELOPMENT FOR MALABAR GROUPE *Epinephelus malabaricus*
- 12:00** **Jiann-Horng Leu**, Jyh-Ming Tsai, Hsin-Yiu Chou
IDENTIFICATION AND EXPRESSION ANALYSIS OF 19 CC CHEMOKINE GENES
IN ORANGE-SPOTTED GROUPE *Epinephelus coioides*
- 12:20** **Yu-Hsien Chou**, Ting-Yu Wang, Tzong-Yueh Chen
CHARACTERIZATION OF MUCOSAL IMMUNITY RESPONSE THROUGH
IMMUNOGLOBULIN T (IGT) IN ORANGE-SPOTTED GROUPE *Epinephelus
coioides*
- 12:40** **LUNCH**
- 13:50** **Szu-Hsuan Mao**, Chee-Shin Chua, Young-Mao Chen, Tzong-Yueh Chen
CHARACTERIZATION OF STRESS-INDUCED AUTOPHAGY BY LC3 IN ORANGE-
SPOTTED GROUPE *Epinephelus coioides*
- 14:10** **Ting-Yu Wang**, Zhi-Zhuang Tang, Chai-Foong Lai, Young-Mao Chen,
Tzong-Yueh Chen
THE EFFECT OF TEMPERATURE ON IFN-REGULATED ANTIVIRAL RESPONSE
IN ORANGE-SPOTTED GROUPE *Epinephelus coioides*
- 14:30** **Chao-Fen Lin**, Yi-Tien Chen, Tzong-Yueh Chen
DECREASED EXPRESSION OF SPARC BY IMMUNO-INHIBITION ENHANCES
CELL PROLIFERATION IN ORANGE-SPOTTED GROUPE *Epinephelus coioides*

THURSDAY

- 14:50** **Ahmad Atirah Khairiah**, M.N.A. Amal, M. Zamri-Saad, A. Azila, M. Sufian, N.Y. Nik-Haiha
PREVALENCE, RISK FACTORS AND TRANSMISSION OF VIRAL NERVOUS NECROSIS IN A HATCHERY PRODUCING HYBRID GROUPER FRY
- 15:10** **Ketut Sugama**, Isti Koesharyani, Agus Sunarto
SCALE DROP DISEASE INFECTION ON MARINE CAGE CULTURE OF SEA BASS *Lates calcarifer* (BLOCH) IN INDONESIA

EEL, TROUT, STURGEON AND OTHERS

Thursday, April 26 13:50 - 15:30 Room 102

Chair: Le Minh Hoang

- 13:50** **Thumronk Amornsakun**, Anuar Hassan, Pornpanom Promkaew
POTENTIAL OF CLIMBING PERCH *Anabas testudineus* CULTURE AT COASTAL ZONE
- 14:10** **Marites Ramos-Castro**, Janice M. Papa, Isagani P. Angeles Jr., Cheng-Hui Lin
MITOCHONDRIAL DNA (16S rDNA) ANALYSIS OF RICE EEL *Monopterus albus* IN ISABELA, PHILIPPINES
- 14:30** **BoonFei Tan**, Edwin Pei Yong Chow, Kah Heng Liong, Elke Schoeters, Widjaja Ning
FUNCTIONAL FEED ADDITIVES OF ENCAPSULATED BUTYRIC ACID AND MICROEMULSIFIED YELLOW CAROTENOID IMPROVE THE GROWTH, IMMUNE RESPONSE AND PIGMENTATION OF HYBRID CATFISH *Clarias macrocephalus* × *Clarias gariepinus*
- 14:50** **Mohammad Sayyad Bourani**, Bahman Mohammadi Tabar, Mahdi Golshan, Ali Asghar Khanipour
INTRODUCING PIKE-PERCH *Sander lucioperca* CULTURE FROM FINGERLING TO GROWING IN IRAN
- 15:10** **Mohammad Sayyad Bourani**, Ali Asghar Khanipour, Bahman Mohammadi tabar, Mahdi Golshan, Adel Hossienjani
CULTURE OF PIKEPERCH *Sander lucioperca* JUVENILES IN INTENSIVE SYSTEM

EMERGING ISSUES IN AQUACULTURE

Thursday, April 26 13:50 - 15:30 Room 201f

Chair: Young-Mao Chen

- 13:50** **Hongjie Chen**, Charmaine Ng, Shin Giek Goh, Laurence Haller, Zhixin Wu, Francis Rathinam Charles, Aurore Trottet, Karina Gin
MICROBIAL WATER QUALITY AND ANTIMICROBIAL RESISTANCE IN AQUACULTURE FARMS IN SINGAPORE
- 14:10** **Aikaterini Spiliotopoulou**, Henrik R. Andersen, Lars-Flemming Pedersen, Colin A. Stedmon, Adam C. Hambly
THE RESPONSE OF FLUORESCENT ORGANIC MATTER TO OZONE TREATMENT IN FRESHWATER PILOT RECIRCULATING AQUACULTURE SYSTEMS
- 14:30** **Veena Soni**
ETHICAL ANALYSIS OF THE USE OF GM FISH: EMERGING ISSUES FOR AQUACULTURE DEVELOPMENT
- 14:50** **Pau Badia Grimalt**, Emmanuelle Bourgois, Flavie Denelle
SOCIAL MONITORING IN SEAFOOD SUPPLY CHAINS
- 15:10** **Krishna R. Salin**, Pau Badia, Gabriel Arome Ataguba, Emmanuelle Bourgois
COMPLIANCE WITH SUSTAINABLE STANDARDS: FOCUS ON SHRIMP FARMS IN THAILAND

THURSDAY